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CONSOLIDATED TRANSLATION SURVEY

Number 97

For January 1966

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CONSOLIDATED TRANSLATION SURVEY

PREFACE

This survey is prepared monthly by the Foreign Documents Division, Office of Central Reference, CIA, from lists received through the cooperation of US government agencies and includes translations prepared by such agencies, private industry, universities, research institutions, and commercial translation organizations. It is a compilation of foreign documentary projects completed or started during the preceding month.

Translations are listed by area and subject category. Scientific projects are grouped as a section regardless of geographic area. Title in English, author, foreign language title of source of material, date of publication, and publication identification of the completed project are given when available. Tables of contents of journals translated cover-to-cover are reproduced from the current publications.

Projects in process, i.e., not completed as of the date of this survey, are noted with an asterisk (*), and, when available, a project-control or "in-process" number is noted in parentheses following the title. Certain details may be unavailable on such projects. New projects in process are not listed again until they are completed.

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AGU

American Geophysical Union 1515 Massachusetts Avenue, NW Washington, D.C. 20005

ΑI

Advance Information Frederick A. Praeger, Publishers 111 Fourth Avenue New York, N.Y. 10003 American Institute of Physics 335 East 45th Street New York, New York 10017 6

Amer Math Soc

American Mathematical Society 190 Hope Street Providence 6, Rhode Island

AMS - (see ACSI)

ANL - Argonne National Laboratory, Illinois (see AEC)

BISI

British Iron and Steel Industry Translation Service The Iron and Steel Institute 4 Grosvenor Gardens London, S.W. 1, England

CB

Consultants Bureau Enterprises, Incorporated 227 West 17th Street
New York, New York 10011

CFSTI

Clearinghouse for Federal Scientific and Technical Information (Formerly Office of Technical Services) Port Royal and Braddock Roads Springfield, Virginia 22151

CTT

Columbia Technical Translations 5 Vermont Avenue White Plains, New York 10600

DDC RSIC - Defense Documentation Center, Redstone Scientific Information Center (see CFSTI)

DIA

Defense Intelligence Agency Washington D.C. 20301

FSTC

Defense Documentation Center Cameron Station Alexandria, Virginia

FTD - Foreign Technology Division (see AF)

GSA

Geological Society of America Publishing Department 419 West 117th Street New York 27, New York

HB

Henry Brutcher Technical Translations P.O. Box 157 Altadena, California 91001

IEEE

Institute of Electrical and Electronics Engineers 275 Madison Avenue
New York, New York 10016

JPRS

U. S. Department of Commerce Clearinghouse for Federal Scientific and Technical Information Joint Publications Research Service Building Tempo E, East Adams Drive, 4th & 6th Streets, SW Washington, D.C. 20443

MT

M. de O. Tollemache Pennyford Cottage Burrington, Umberleigh Devon, England

NASA

National Aeronautics and Space Administration 1512 H Street, N.W. Washington, D.C. 20546 Navy

Department of Navy Office of Naval Intelligence Washington 25, D.C.

ONI - Office of Naval Intelligence (see Navy)

ORNL - Oak Ridge National Laboratory (see AEC)

OSA

Optical Society of America, Incorporated 33 University Road Cambridge, Massachusetts 02138

OTS - (see CFSTI)

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Rand Corporation ATTN: Publications Office 1700 Main Street Santa Monica, California

SLAC - Stanford Linear Accelerator Center - (see AEC)

UCRL

University of California Lawrence Radiation Laboratory, Livermore, California (see AEC)

Economic

The Major Water Power Installations of the Dnepr Cascade, by Ye. Matveyev, 9 pp. RUSSIAN, per, Arkhitektura SSSR, No 8, 1965, pp. 26-30.
JPRS 33375

Mechanization of Loading and Unloading Operations, by O. Chirkin, 6 p. RUSSIAN, per, Avtomobil'nyy Transport, No 3, 1965, pp 50=53. ACSI I-8733 ID 22040591 65

Nine-Month Plan Fulfillment Results in the Azerbaydzhan SSR, 5 pp. HUSSIAN, np, Bakinskiy Rabochiy, 21 Oct 1965, p. 3. JPRS 33492

Spread of Taste for Products by Sublimation Drying, by O. A. Popov, 24 p. RUSSIAN, per, Canning and Vegetable Drying Industry, No 6, 1965, 20-47.
ACSI 1-7887
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RUSSIAM, per, Canning and Vegetable Drying Industry, No 6, 1965, 20-47.
ACSI 1-7887
ID 22040410 65

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ACSI 1-7887
ID 22040410 65

All-Union Conference on Nethods of Proserving, by I. I. Varentsov, 24 p. RUSSIAN, per, Comming and Vegetable Drying Industry, No 6, 1965, 20-47.
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ACSI 1-7867
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USSR Economic (Contd)

Fifty Years' Technical Successes of the Moscow Power System, by A. P. Nemov, 10 pp. HUSSIAN, per, Elektricheskiye Stantsii, No 11, Nov 1965, pp. 7-10.

JPRS 33495

Soviet Prospectors in the Far North are Introducing Small-Scale Mechanization in Their Work, by Moskvin, 5 pp. RUSSIAN, np, Ekonomicheskaya Gazeta, No 33, 18 Aug 1965, p. 37. JPRS 33220

Belorussian Economic and Industrial Projections for Next Five Years, by S. Malinin, 5 pp.
RISSIAN, np, Ekonomicheskaya gazeta, 6 Oct 1965, pp. 15 and 24.
JPRS 33077

Finances and Economic Stimuli, by V. Garbuzov, 9 pp. RUSSIAN, np, Ekonomicheskaya gazeta, No 41, 13 Oct 1965, pp. 4-51.

JPRS 33355

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JPRS 33635

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JPRS 33435

Benefits Derived from Establishment of Direct Ties between Garment Morkers in Gor'kiy and Trade Organizations, by Ye. Fedorova, 8 pp. RUBSIAN, per, Ekonomicheskaya Gezeta, No 43, 10 Nov 1965, pp. 20-21. JPRS 33435 The Use of Oxygen at the Makeyevka Plant Imeni Kirov, by A. Zhukov, 5 pp. RUSSIAN, np, Ekonomicheskaya Gazeta, No 44, 3 Nov 1965, p. 16. JPRS 33595

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Organizational Steps to Improve the Planning of Machine-Building Enterprises, by S. Mikhael', 5 pp. RUSSIAN, np, Ekonomicheskaya Gazeta, No 46, Nov 1965, p. 15.
JPRS 33596

Financial Planning under the New Economic System, by R. Vinokur, 5 pp. RUSSIAN, np, Ekonomicheskaya Gazeta, No 47, Nov 1965, p. 25. JPRS 33600

Planning Technical Progress, by L. Gatovskiy, 10 pp.

RUSSIAN, np, Ekonomicheskaya Gazeta, No 48, Dec 1965, pp. 5-6.

JPRS 33664

Economic Changes at the "Kalibr'" Plant, by V. Spirkin, 5 pp. RUSSIAN, np, <u>Ekonomicheskaya gazeta</u>, No 4d, Dec 1965, p. 13. JPRS 33581

Laws of the Development of a System for the Control of a Socialist Economy, by V. V. Novozhilov, 21 pp. HUSBIAN, per, Ekonomika i Matematicheskiye Metody, Vol 1, No 5, 1965, pp. 641-656. JPNS 33053 USSR Economic (Contd)

Computation of Rational Prices on the Basis of Current Economic Information, by V. Belkin, A. Kronrod, Yu. Nazarov and V. Pan, 31 pp. RUSSIAN, per, Ekonomika i Matematicheskiye Metody, Vol 1, No 5, Sept-Oct 1965, pp. 699-717.

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Ensuring the High Economic Effectiveness of Construction Work, 6 pp.
RUSSIAN, per, Ekonomika Stroitel'stva,
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JPRS 32614

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JPRS 33535

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The Economy of Uzbekistan in the New Five-Year Plan (First installment), by S. Ziyadullayev, 7 pp. RUSSIAN, per, <u>Ekonomika i Zhizn'</u>, No 9, Sept 1965, pp. 8-12. JPRS 33354

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Increased Efficiency from Management and Production Consolidation at the Dneprovskiy Aluminum Plant, 5 pp. RUSSIAN, np, <u>Izvestiya</u>, 11 Nov 1965, p. 2. JPRS 33588

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JPRS 33281

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Proizvodsta, No 11, Nov 1965, pp. 11-13.
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RUSSIAN, per, Hekhanizatsiya Pogruzochno Razgruzochnykh i Skladskikh Rabot, Moscow, 1963, pp 267-277.

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HUSSIAN, per, Mirovaya ekonomika i mezhdunarodnyye otnosheniya, No 11, Nov 1965, pp. 3-13.
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A. Brosman, N. Kashkadamova.
RUSSIAN, per, Na Stroykakh Rossii, No 4,
1965, pp 1-2.
*ACSI I-8558
ID 2204051165

For Full Utilization of Fixed Capital by the Leninogorsk Polymetallic Combine, by 8. Mikhaylov, 6 pp. RUSBIAN, per, Narodnoye Khosyaystvo Kasakhstana, No 9, Sept 1965, pp. 23-25.

JPNS 33,588

Possibilities for the Utilization of Secondary Power Resources in Kazakhstan, by A. Zakharov, Yu. Doronin, and A. Panin, 5 pp. RUSSIAN, per, Narodnoye Khozyaystvo Kazakhstana, No 9, Sept 1965, pp. 26-27. JPRS 33588

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JPRS 33449

Utilization of Foreign Literature in the Scientific-Research Institute, by L. S. Nud'go, 3 p. RUSSIAN, per, Nauchno-Tekhnicheskaya Infurmatsiya, No 6, 1965, p 17. ASSI I-8741 ID 22040599 65

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JPRS 33435

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JPRS 33638

The Problem of Developing Petrochemical Complexes in the Transcaucasus, by L. Gramoteyeva, 7 pp. RUSSIAN, per, Planovoye Khozyaystvo, No 11, Nov 1965, pp. 44-49.

JPRS 33656

Ways of Lowering Transport Outlays in the System of International Socialist Division of Labor, by A. Barkovskiy and B. Gorizontov, 7 pp. RUSSIAN, per, Planovoye khozyaystvo, No 11, Nov 1965, pp. 67-71.
JPRS 33638

(On His 60th Anniversary) Kuz*ma Andryanovich Andryanov, by A. A. Zhdanov. RUSSIAN, per, <u>Plastscheskiye Massy</u>, No 12, 1964, p 2. *ACSI I-8603 ID 2204054465

Need for Planned Urban Development, by M. Posokhin, 5 pp. RUSSIAN, np. <u>Pravda</u>, 20 Oct 1965, p 3. JPRS 33,098

Operation of the Nikopol' Southern Pipe Plant, by I. Isayev, 5 pp. RUSSIAN, np, Pravda, 5 Nov 1965, p. 2. JPRS 33453

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JPRS 33453

Nine-Month Plan Results in the Uzbek SSR, 5 pp.
FUSSIAN, np, Pravda Vostoka, 22 Oct 1965, p. 3.
JPRS 33492

Economizing Electric Power Resources, by A. Mogilin, 8 pp.
RUSSIAN, per, Promyshlennaya Energetika, No.
9, Sept 1965, pp. 2-6.
JPRS 33375

The Use of Polymeric Building Materials in Construction May Save Large Quantities of Scarce Raw Materials, by Yu. N. Afanas'yev and V. M. Spiridonov, 5 pp. RUSSIAN, per, Promyshlemove Stroitel'stvo, No 9, Sept 1965, pp. 2-3.
JPRS 33535

Fishing Industry Plan for 1966-1970, 8 pp. RUSSIAN, per, Rybnoye Khozyaystvo, No 4, Apr 1964, pp. 3-7.
JPRS 33230

Construction Organizations Are Behind Schedule in Putting Grain-Receiving Facilities Into Operation, 7 pp.
RUSSIAN, per, Sel'skoye Stroitel'stvo, No 9, Sept 1965, pp. 1-2:
JPRS 33535

USSR Economic (Contd)

Production Recommendation at the Moscow Motor Vehicle Plant Imeni Likhachev, by O. Volkov, 10 pp.
RUBSIAN, per, Sotsialisticheskiy Trud,
No 9, Sept 1965, pp. 60-66.
JPRS 33637

Plan Fulfillment in the Belorussian 88R, 5 pp. RUSSIAN, np, Sovetskay: Belorussiya, 21 Oct 1965, p. 1.
JPRS 33492

Nine-Month Plan Fulfillment in the Estonian Soviet Republic, 5 pp. RUSSIAN, np. Sovetskaya Estoniya, 17 Oct 1965, pp. 1-2. JPRS 33492

Industrial Administration and Its Scientific Basis, by A. Koryagin, 7 pp. RUSSIAN, np, Sovetskaya Kirgiziya, 2 Nov 1965, p. 2.

JPRS 33465

Nine-Month Plan Fulfillment Success in the Moldavian SSR, 5 pp.
RUSSIAN, np, Sovetskaya Moldaviya, 22 Oct 1965, p. 1.
JPRS 33492

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Nine-Month Plan Fulfillment in RSFSR, 7 pp. RUSSIAN, np, Sovetskaya Rossiya, 20 Oct 1965, pp. 1-2.
JPRS 33492

Fuller Utilization of Reserves Should Be Made in Cosmodity Trade, 5 pp. RUSSIAN, per, Sovetskaya Torgovlya, No 10, Oct 1965, pp. 1-4.
JPRS 33493

Profitability in Retail Trade, by Prof. M. Bakanov, 8 pp. RUSSIAN, per, Sovetskaya Torgovlya, No 10, Oct 1965, pp. 29-34.
JPRS 33379

Dehydrated Fruit and Vegetables, by Ye. H. Volkov. RUSSIAN, rpt, State Publishing House for Commercial Literature, 1962, pp 7-21; 64-77. *ACSI I-8754 ID 2213070163

Industrial Statistics, 107 pp.
RUBSIAM, bk, Statistika Promyshlennosti,
by G. I. Baklanov, A. I. Ivanov, et al, Moscow,
1965, pp 215-267 and 283-332.
JFRS 33,322

Acute Shortage of Acid-Proof Materials in the Construction Industry USSR, 5 pp. RUSSIAN, per, Steklo i Keramika, Vol XXII, No 9, Sept 1965, pp. 1-2.
JPRS 33535

Prices and Profit -- The Basis of Autonomous Financing in the Construction Industry, by B. Vaynshteyn, 5 pp. RUSSIAN, np, <u>Stroitel'naya Gazeta</u>, No 109, 15 Sept 1965, p. 3. JPRS 33535

Production Problems in the Cement Industry, by Yu. Deshko, 5 pp. RUSSIAN, np. Stroitel'naya Gazeta, No 113, 24 Sept 1965, p. 2. JPRS 33535

The Planning of Industrial Areas in Cities, by V. Luk'yanov, 5 pp.
RUSSIAN, np, Stroitel'naya Gazeta, No 117, 3 Oct 1965, p. 3.

JPRS 33535

The Problem of Distribution of Industrial Enterprises, by R. Zverev, 6 pp. RUSSIAN, np, Stroitel'naya Gazeta, No 120, 10 Oct 1965, p. 2.

JPRS 33535

USSR Economic (Contd)

Problems of Urban Renewal in Soviet Cities, by M. Khauke, 5 pp. RUSSIAN, np, Stroitel'naya Gazeta, No 121, 13 Oct 1965, p. 2. JPRS 33535

Need for More Rapid Activation of New Capacities in Light Industry, by V. Kan, 4 pp. RUSSIAN, per, Stroitel'naya Gazeta, 29 Oct 1965, p 1
JPRS 33435

Resolution of Fifth Congress of Trade Union of Construction and Construction Materials Industry Workers on the Current Report of the Central Committee of the Trade Union, 12 pp.
RUSSIAN, np, Stroitel naya Gazeta, No 135, 14
Nov 1965, p. 2.
JPRS 33494

Changes Made and Results of Tests on the New E-652A Excavator, by N. I. Gavrilov, 5 pp. RUSSIAN, per, Stroitel'nyye i Dorozhnyye Mashiny, No 8, Aug 1965, pp. 1-2.

JPRS 33712

Plans for Automation of Control System in Construction in the 1966-1970 Period, by I. F. Galkin, 14 pp. RUSSIAN, per, Stroitel'stvo i Arkhitektura Leningrada, No 7, Jul 1965, pp. 14-17.

JPRS 33535

Need for More Flexible Operational Planning in Economic Activity, by N. P. Fedorenko, 5 pp. RUSSIAN, np, <u>Trud</u>, 23 Oct 1965, p. 2. JPRS 33449

Nine-Month Plan Fulfillment in the Turkmen SSR, 5 pp. RUSSIAN, np, <u>Turkmenskaya Iskra</u>, 13 Oct 1965, p. 1. JPRS 33492

Fourth All-Union Conference on Advanced Technology, Mechanization, and Automation in Machine Building, by 3. M. Kharaker, 6 pp.
HUSSIAN, per, Vestnik Mashinostroyaniya, No 10, Oct 1965, pp. 79-80.
JPRS 33465

An Important Reserve for Increasing Production in Soviet Machine Building, by A. Krakovskiy, 9 pp. RUSSIAN, per, Vestnik statistiki, No 10, Oct 1965, pp 11-17.

JPRS 33, 320.

Forthcoming Annual Inventory of Uninstalled Equipment (As of 1 January 1966), by P. Zel'tser, 5 pp. RUSSIAN, per, Vestnik Statistiki, No 10, Oct 1965, pp. 58-62.

JPRS 33438

Practical Results of Application of the New Economic System, by M. Nishchiy and S. Sitnikov, 7 pp. RUSSIAN, per, Vestnik Statistiki, No 11, Nov 1965, pp. 9-13.

JPRS 33600

Preparation of Future Engineers with Account for the Demands of Technical Progress, by G. A. Nikolayev, 9 pp.
RUSSIAN, per, Vestnik Vysshey Shkoly, No 9, Sept 1965, pp. 27-32.
JPRS 33307

Soviet Foreign Trade in 1964. (SF-4023) RUSSIAN, bk, Vneshnyaya Torgovlya SSSR za 1964 god, Noscow, 1965, pp 1-295.

New Improvements in Economic Stimulation of Production, by B. Sukharevskiy, 22 pp. NJSSIAN, per, Voprosy Ekonomiki, No 10, Oct 1965, pp. 14-31.
JPRS 33355

New Norms for Depreciation in USSk Industry, ty Ye. Ivanov, 12 pp. RUSSIAN, per, Voprosy Ekonomiki, No 10, Oct 1965, pp. 32-41.
JPRS 33600

Urgent Problems of Analysis and Planning of Specialization of Economic Regions, by M. Ippa, 15 pp. RUSSIAN, per, Voprosy Ekonomiki, No 10, Oct 1965, pp. 42-53.

JPRS 33600

USSR Economic (Contd)

Machine Building Specialization in the Eastern Regions of the USSR, by V. Loginov and V. Yevstigneyev, 11 pp. RUSSIAN, per, Voprosy ekonomiki, No 10, Oct 1965, pp. 54-63.

JPRS 33465

1

Consultation of Specialists From the Member-Countries of the Council of Economic Mutual Air for Cordination of Methods for the Study of Nutrition of the Population, by S. G. Apetkar. RUSSIAN, per, Voprosy Pitaniya, Moscow, Apr 1965, pp 89-91.
*ACSI I-8746
ID 2204060565

The Sumgait Aluminum Plant Reached Its Seven-Year Plan Output as Early as 1963, but Did So At the Expense of Wearing Out Its Equipment, by M. Ge.'fand, 7 pp.
RUSSIAN, np, Vyshka, 28 Aug 1965, p. 3.
JPRS 33220

Wages and Production Cost in Soviet Machine Building, by M. S. Maslova, 72 pp. RUBSIAN, bk, Zarabotnaya plata i sebestoimst' produktaii v promyablennosti SSSR, Moscow, Economic Literature Publishing House, 1962, pp 29-119 JPRS: 33,318

Plan Fulfillment Results in the Georgian SSR, 5 pp.
RUSSIAN, np, Zarya Vostoka, 21 Oct 1965, p. 1.
JPRS 33492

Plans for Overcoming the Low Industrial Level of Georgian SSR, by L. Khaburzaniya, 5 pp. RUSSIAN, np, Zarya Vostoka, 25 Nov 1965, p. 2. JPRS 33600

Innovations Proposed by Kutaisi Workers, by Sh. Kobakhidze, 5 pp.
RUSSIAN, np, Zarya Vostoka, 17 Nov 1965, p. 2.
JPRS 33397

USSR Political

Discussion of Economic Decisions of CC CPSU September 1965 Plenum, by I. Prazyan, RUSSIAN, np, Bakinskiy Rabochiy, 2 Nov 1965, p 2.

JPRS 33313

Soviet Interview with Leader of Portuguese Communist Party, 6 pp.
RUSSIAN, np, <u>Izvestiya</u>, 22 Dec 1965, p. 2.
JPRS 33716

Some Aspects in the Progress of the National-Liberation Movement, by A. Abramyan, 5 pp. RUSSIAN, np, Kommunist, 21 Dec 1965, p. 4. JPRS 33604

The Friendship Among the Peoples Building Communism, 14 pp, RUSSIAN, per, Kommunist, No 16, Nov 1965, pp 3-13.
JPRS 33281

The Historical Lessons of the Seventh Comintern Congress and Contemporaneity, by B. Ponomarev, 24 pp.
RUSSIAN, per, Kommunist, No 16, Nov 1965, pp 14-31.
JFRS 33281

Lenin's Ideological Heritage and Party Propaganda, by V. Stepakov, 19 pp. RUSSIAN, per, Kommunist, No 16, Nov 1965, pp 32-46. JPRS 33281

Reflection of Russia's Policy in the Differences of Opinion between Maki and Rakah, by Eli Avrahami, 5 pp. HEBREW, np, Lamerchav, 10 Dec 1965, p. 2. JPRS 33711

Soviet Assessment of the World Political Situation, by V. Andreyev, A. Baykalov, B. Balasanov, N. Glagolev, Yu. Gryadunov, A. Kalinin, L. Kartsev, N. Kolikov, B. Likhachev, L. Pavlov, L. Sedin and N. Yur'yev, 44 pp. HUSSIAN, per, Mirovaya ekonomika i mezhdunarodnyye otnosheniya, No 10, 1965, pp. 71-92.

JPRS 33204

USSR Political (Contd)

29 Sept 1965 CC CPSU Plenum Decree on Improvement of Industrial Administration and Planning, 5 pp.
RUSSIAN, per, Narodnoye Khozyaystvo Kazakhstana, No 10, Oct 1965, pp. 4-6.
JPRS 33596

Liberman on the Plan, Direct Relations, and Profitability, by Ye. Liberman, 8 pp. RUSSIAN, per, Pravda, 21 Nov 1965, pp 2-3 JPRS 333331

Moscow CP Organ Analyzes Society's Transition to Communism, by D. Chesnokov, 7 pp. RUSSIAN, np, Sovetskaya Rossiya, 25 Nov 1965, pp. 2-3.
JPRS 33481

Soviet Labor Organ Stresses Importance of Unity in Communist Movement, 5 pp. RUSSIAN, np, <u>Trud</u>, 16 Dec 1965, p. 4. JPRS 33716

Dialectics of Modern Social Development, by P. N. Fedoseyev, 28 pp. RUSSIAN, per, Vestnik Akademii Nauk SSSR, No 9, Sept 1965, pp. 3-21. JPRS 33228

Discussion of the Problems of Scientific Communism, by V. M. Mikhkalev and Yu. Ye. Fedorov, 41 pp.
RUSSIAN, per, Voprosy Filosofii, Vol XIX, No 5, 1965, pp. 141-161.
JPRS 33515

Two World Systems and Their Development Tendencies, by A. P. Butenko, 14 pp. RUSSIAN, per, <u>Voprosy Filosofii</u>, No 9, 1965, pp. 3-13. JPRS 33594

Maintenance of Cultural Relations with Ukrainians Living Abroad, by Yuriy Smolych, 5 pp.
UKRAINIAN, per, Visti z Ukrayiny, No 47(381), Nov 1965, p. 1.
JPRS 33722

USSR Political (Contd)

Speech by Chairman of Council of Ministers BSSR, T. Ya. Kiselev At Sixth Session of Supreme Soviet BSSR Sixth Convocation, by T. Ya. Kiselev, 14 pp. RUSSIAN, np, Znamya Yunosti, 24 Oct 1965, p. 2.

JPRS 33465

Debate on the Report of Chairman of the Council of Ministers BSSR, T. Ya. Kiselev, At 6th Session of Supreme Soviet BSSR 6th Convocation, 12 pp.
RUSSIAN, np, Znamya Yunosti, 24 Oct 1965, pp. 3-4.
JPRS 33465

Military

Struggle Against Rockets, 109 pp. RUSSIAN, bk, Bor'ba a Raketami, Moscow, 1965, pp 1-131
JPRS 33341

On the Way to Improve the Training of Military Lawyers, by I. Pobezhimov, 8 pp. MUSSIAN, per, Kommunist vooruzhennykh sil, No 15, Aug 1965, pp. 42-46.
JPRS 33271

Troop Instruction on Combat Readiness, by Col. A. Shaturnyy, 12 pp. RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 15, Aug 1965, pp. 64-69.
JPRS 33058

Chronicle of the Heroic Achievements of the People, by Col B. Sharpilo, 11 pp. RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 19, Oct 1965, pp. 87-92.
JPRS 33252

The Nature and Characteristics of Nuclear Missile Warfare, by Col. S. Malyanchikov, 12 pp. RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 21, Nov 1965, pp. 69-74.
JPRS 33580

USSR Military (Contd)

Tanks against Antitank Guided Missiles, by I. Chernyshenko, 5 pp. RUSSIAN, np. Krasnaya zvezda, No 231, 1 Oct 1965, p. 1. JPRS 33271

Engineer Equipment in Modern Battle, by A. D. Tsirlin, 5 pp.
RUSSIAN, np, Krasnaya zvezda, No 243, 15 Oct 1965, p. 2.
JPRS 33271

The Training of Petty Officers, by B. Kryuch-kov, 5 pp.
RUSSIAN, np, Krasnaya zvezda, 12 Nov 1965,
p. 1.
JPRS 33150

Men of the Red-Banner Pacific Fleet, by Lt. Col. B. Prichkin and Capt. Lt. V. Protasov, 7 pp.
RUSSIAN, np, <u>Krasnaya zvezda</u>, 12 Nov 1965, p. 1.
JPRS 33150

Objective Laws on War Can Be Used by the Commander, by Col. M. Yasyukov, 9 pp. RUSSIAN, np, Krasnaya zvezda, No 266, 12 Nov 1965, pp. 2 and 3.

JPRS 33580

Problem Cadets in Naval School, by G. Savichev, 5 pp.
RUSSIAN, np, Krasnaya Zvezda, 28 Nov 1965, p.
2.
JPRS 33609

Comments on the Training of Naval Specialists, by S. Kompaniyets and V. Tersin, 5 pp. RUSSIAN, np, <u>Krasnaya Zvezda</u>, 30 Nov 1965, p. 2.
JPRS 33609

Selected Articles from USSR Naval Digest. RUSSIAN, per, <u>Morakoy Sbornik</u>, No 4, 1965. 9698838 DIA

New Military-Historical Publications for 1966, 19 pp.
RESSIAN, pamphlet, Novaya Voyanno-istoricheskaya Literatura v 1966 god, 1965, pp. 5-19.
JPRS 33300

USSR Military (Contd)

New Military Political Literature in 1966, 32 pp.
RUSSIAN, per, Novaya Voyenno-Politi cheskaya Literatura v 1966 gody, 1965, pp. 2 and 4-28.
JPRS 33150

Soviet Naval Development Prior to World War II, by N. G. Kuznetsov, 52 pp. RUSSIAN, per, Oktyabr', No 11, Nov 1965, pp. 134-171. JPRS 33537

Rules for Setting-up & Taking Down Tents UST-41 & USB-41, by M. M. Gurvich. 9 pp. RUSSIAN, bk, Handbook for Sanitary Instructors, Rukovodstvo Dlya Sanitarnykh Tekhnikov, 1951, pp 630-638.

*ACSI I-8750
ID-856093(2204060965)

The Importance of National Defense, by Col. I. Igashev, 6 pp.
RUSSIAN, np, Sovetskiy Patriot, 31 Oct 1965, p. 2.
JPRS 33549

Patriotism and Service in the Armed Forces, by D. Petukhov, 5 pp. RUSSIAN, np, Sovetskiy Patriot, 14 Nov 1965, p. 2. JPRS 33549

More Aid to Local Level Civil Defense Organizations, 6 pp. HUSSIAN, np, Sovetskiy Patriot, 28 Nov 1965, p. 2. JPRS 33549

Heroes of the Landing at Shumshu, by Major V. Sologub, 6 pp. RUSSIAN, per, Voyenno-Istoricheskiy Zhurnal, No 8, Aug 1965, pp. 40-44.

JPRS 33241

The Counterbattery Struggle According to Experience in the Defense of Leningrad, by Col G. Khoroshilov, 5 pp.
RUSSIAN, per, Vereno-istorioheskiy shurnel.
No 9, 1965, pp 80-82
JPRS 33097

USSR Military (Contd)

Concerning B. M. Dumenko, Commander of the Combined Cavalry Corps, by Prof Maj Gen, S. Mayda, 12 pp. RUBSIAN, per, <u>Voyenno-istoricheskiy shurnal</u>, Mo 9, 1965, pp 113-120. JPRS 33097 The Party Spirit of Military-Historical Science, by I. Korotkov, 13 pp. RUSSIAN, per, Voyenno-Istoricheskiy Zhurnal, No. 10, Oct 1965, pp. 3-12.

JPRS 33248

Marshal Vasilevskiy Gives Details of Stalingrad Defense, 16 pp.
RUSSIAN, per, Voyenno-Istoricheskiy Zhurnal,
No 10, Oct 1965, pp. 14-25.
JPRS 33251

Facts and Thoughts on the Beginning Period of the Great Patriotic War, by P. Korkodinov, 11 pp. RUSSIAN, per, Voyenno-Istoricheskiy Zhurnal, No. 10, Oct 1965, pp. 26-34. JPRS 33247

The 39th Army in the Khingan-Mukden Operation, by I. Lyudnikov, 8 pp. RUSSIAN, per, Voyenno-Istoricheskiy Zhurnal, No 10, Oct 1965, pp. 68-74.
JPRS 33203

The Tank Travels in Water, by Ye. Orekhov, 4p. RUS\$IAN, per, Voyennyye Znaniya, No 3, Mar 1965, 2 pp. ACSI I-8598 ID 22040539 65

The Naval Schools Are the Path to the Sea, by S. Zakharov, 6 pp.
RUSSIAN, per, Voyannyye znaniya. No 6, Jun 1965, pp. 16-17.
JPNS 33271

Survey of Defense Capabilities of the Soviet Union, 7 pp. HUSSIAN, per, <u>Voyennye Znaniya</u>, No 11, Nov 1965, pp. 1-2.
JPRS 33601

USSR Military (Contd)

Problems in Medical Defense, by T. Grakova, 5 pp.
NISSIAN, per, Voyennye Znaniya, No 11, Nov 1965, pp. 14-16.
JPRS 33601

The Training of Civil Defense Leaders, by D. Gridasov, 5 pp. RUSSIAN, per, Voyennye Znaniya, No 11, Nov 1965, pp. 14-16.
JPRS 33601

The Development of Civil Defense Courses, by P. Kurenkov, 5 pp.
RUSSIAN, per, Voyennye Znaniya, No 11, Nov 1965, p. 17.
JPRS 33601

A Civil Defense Exercise, by M. Stepanova, 6 pp.
RUSSIAN, per, Voyennye Znaniya, No 11,
Nov 1965, pp. 18-19.
JPRS 33601

Motor Transport during Dispersal and Evacuation, by A. Safronov, 6 pp.
RUSSIAN, per, <u>Voyennye Znaniya</u>, No 11, Nov
1965, pp. 22-23.
JPRS 33601

Organization of a Tent Field Hospital, by A. Mochul'skiy, 5 pp.
NUSSIAN, per, Voyennyye Znaniya, No 11,
1965, pp. 25-26.
JPRS 33607

Selection and Preparation of Dispersal Areas, by M. Tsivilev, 5 pp. RUSSIAN, per, <u>Voyennye Znaniya</u>, No 11, Nov 1965, p. 27. JPRS 33601

The Preparation of Military Age Youth for Military Service in Latvia, by A. Veys, 7 pp. RUSSIAN, per, <u>Voyennyye Znaniya</u>, No 11, 1965, pp. 29-30.
JPRS 33607

USSR Military (Contd)

Aircraft Carriers Are Weapons of Aggression, by V. Gerasimov, 6 pp. RUSSIAN, per, Voyennyye Znaniya, No 11, Nov 1965, pp. 44-45. JPRS 33580

Combat Union of Fraternal Nations, by A. A. Grechko, 17 pp. RUSSIAN, bk, V. yedinom stroyu, pp. 3-20. JPRS 33150

Soviet Armed Forces, by R. Ya. Malinovskiy, 26 pp. RUSSIAN, bk, V yedinom stroyu, pp. 110-136. JPRS 33150

Wheeled Armored Personnel Carriers, by Ye. Drekhov, 6 p. RUSSIAN, per, Za Rulem, No 2, Feb 1965, 2p. ACSI I-8597
ID 22040538 65

Aeroflot - Soviet Civil Air Complex, by J. Mathiot, 10 pp. SPANISH, per, Aeronautica y Espacial, Mar 1965, pp 24-27. DIA LN 102-65

Geographic

The M. Ye. Saltykov-Shchedrin State
Public Library Inventory of Incumabular
Charts, by V. V. Kuznetsov.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf,
No 3, 1964, pp 78-86.
*ACSI I-8530
ID 2204050665

Fourth Congress of the Geographic Society of the USSR -- Information Bulletin.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf, No 5, 1964, pp 3-7.
**ACSI I-8562A
ID 2204051565

USSR Geographic (Contd)

Symposium on Contemporary Problems of the Physiography of the USSR, by V. S. Preobrazhenskiy. RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf, No 5, 1964, pp 18-29. *ACSI I-8562B ID 2204051565

On the Periodic Rapid Shifts of Glaciers and the Recent Advance of the Medvezhiy Glacier in the Pamir, by L. D. Dolgushin, S. A. Yevteyev.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf, No 5, 1964, pp 30-38.

*ACSI I-8562C
ID 2204051565

Reviews -- The Success and Difficulties of Morphometry, by Yu. A. Meshcheryakov. RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf, No 5, 1964, pp 112-116. *ACSI I-8562E ID 2204051565

Conference on Modern Ways and Methods of Studying Swamps, by M. Neyshtadt, N. Khotinskiy, 6 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser
Geografischeskaya, No 3, 1965.
ACSI 1-7964-A
ID 2204042865

Chronicle.
RUSSIAN, per, Iz Ak Nauk SSSR,
Ser Geograf, No 5, 1965, pp 117-132.
*ACSI I-8562F
ID 2204051565

Discussion -- Classification of Relief and Its Representation in the Legends of Geomorphological Maps, by N. F. Leont'yev. RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf, No 6, 1964, pp 85-90. *ACSI I-8532A ID 2204050865

Scientific Research Methods -- Experience in Use of Edge-Punched Punch Cards in Landscape Research, by T. D. Aleksandrova. RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf, No 6, 1964, pp 92-97.

*ACSI I-8532B ID 2204050865

USSR Geographic (Contd)

In International Scientific Organizations -The Twentieth International Geographic
Congress (London, 20-28 July 1964), by
I. P. Gerasimov, A. A. Mints.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf,
No 6, 1964, pp 119-121.
*ACSI I-8532C
ID 2204050865

Geographic Aspects of the Seventh International Congress of Anthropologists and Ethnographers, by V. V. Pokshishevskiy. RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf, No 6, 1964, pp 121-127. **ACSI I-8523D ID 2204050865

Toponymics in Kazakhstan, by
E. M. Murzayev.
RUSSIAN, per, Iz Ak Nauk SSSR,
Ser Geograf, Nc 6, 1964, pp 137-139.
*ACSI I-8532E
ID 2204050865

Problems of Neotectonics (On the Results of the Conference of the Fourth Plenary Session of the Geomorphological Commission on 19-23 May 1964).

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf, No 6, 1964, pp 141-150.

ACSI I-8532F
ID 2204050865

On the Geographic Names of The Cis-Baykal and Trans-Baykal, by B. V. Bashkuyev. RUSSIAN, per, <u>Iz Vses Geograf Obshch</u>, No 4, 1965, pp 346-352.
*ACSI I-8785
ID 2204063365

The Volgo-Balt Waterway, by A. Temichev. RUSSIAN, per, Morskoy Flot, No 11, 1964, p 27. *ACSI I-8557

Geological Accompaniment on Aerogeophysical Routes in Hilly and Hountainous Terrain, by O. S. Kornev.

RUSSIAN, per, Razvedka i Okhrana Nedr,
No 9, 1965, pp 52-59.

*ACSI I-8938
ID 2204066565

USSR Geographic (Contd)

Questions of Physical-Geographic Zoning of the Irrigable Area of Central Asia, by T. V. Zvonkova.

RUSSIAN, per, Vest Mosk Univ, No 1, 1964, pp 6-11.

*ACSI I-8561A
ID 2204051465

Toward the History of Zoning of Russia, by N. V. Andreyev.
RUSSIAN, per, Vest Mosk Univ, No 1, 1964, pp 63-67.
*ACSI I-8561C
ID 2204051465

The Content and Compilation of Cadastral Maps of the Land of Administrative Areas, by S. V. Golovenko, L. I. Gorbunova. RUSSIAN, per, Vest Mosk Univ, No 2, 1964, pp 65-71.
*ACSI I-8534A
ID 2204051065

Scientific Notes -- The Mudflow on the Issyk River on 7 July 1963, by S. P. Kavetskiy, Ye. M. Kalmykina. RUSSIAN, per, Vest Nosk Univ, No 2, 1964, pp 77-80.
*ACSI I-8534B
ID 2204051065

Chronicle -- Second Interdepartment :1 Scientific Conference on the Problems of the Left-Bank Ukraine, by L. I. Grishina. RUSSIAN, per, Vest Mosk Univ, No 2, 1964, pp 95-96. *ACSI I-8534C ID 2204051065

Fourth Congress of the Geographic Society RUSSIAN, per, Vestnik Moskovskogo Universiteta, No 3, 1964, pp 3-6. ACSI I-8559A ID 2204051265

The Application of Cartographic Mehtods in Studying New Tectonic Movements, by A. M. Berlyant, L. F. Litvin, 8 p. RUSSIAN, per, Vestnik Moskovskogo Universiteta, No. 3, 1964, pp. 31-38.
ACSI 1-85598
ID 2204051265

USSR Geographic (Contd)

Certain Results of Scientific Research by the Geography Department of Moscow University in 1963, 4 p. RUSSIAN, per, Vestnik Moskovskogo Universiteta, No 3, 1964, pp. 94-96. ACSI I-8559C ID 2204051265

,

In the Learned Council of the Geography
Department, by L. I. Grishina, lp.
RUSSIAN, per, Vestnk Moskovskogo Universiteta,
No 3, 1964, pp 98.
ACSI I-8559D
IB 2204051265

Geography of the People of Eastern Siberia, by B. S. Khorev, 3 p. RUSSIAN, per, Investiya Sibirakogo Otdeleniya Akademii Nauk SSSR Seriya Obshchestvennykh, Vol II, No 5, 1964. ACSI I-8573 ID 22040516 65

Conference on the Utilization of the Natural Resources in the Left-bank Area of the Ukraine, 3 p.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR, Seriya Geograficheskaya, No 2, 1964, pp. 164-165.
ACSI -8462F
ID 22040497 65

Mongolian Landscapes, 6 p. RUSSIAN, per, Izvestiya Akademii Nauk SUSR, Seriya Geograficheskaya, No 2, 1964, pp. 102-106. ACSI I-8462B ID 22040497 65

All-Union Conference on the Paleogeography and Geomorphology of the Caucasus, by N. V. Dumitrashko, 4 p. PUSSIAN, per, Izvestiya Akademii Nauk SSSR, Seriya Geograficheskaya, No 3, 1964, pp 126-128. ACSI I-8533
ID 22040509 65

All-Union Conference on Geographical Names, 4 p. RUSSIAN, per, Geografiya v Shkolye, No 3, 1965. ACSI I-7871 ID 22040434 65 USSR Geographic (Contd)

Chronicle A) Geographic Symposia at the Visiting Central Asisn Session of the Earth Sciences Section of USSR Academy of Sciences, Jointly With the Science Academies of the Uzbek, Kazakh, Kirghiz, Tajik, and Turkmen Soviet Socialist Republics, by I. P. Gerasimov, F. F. Davitaya, 8 pp. RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geogr, No 1, 1965, pp 130-134. ACSI I-7966-A ID 2204043065

Conference on Use of Geomorphological Methods in Prospecting for New Oil and Gas Fields, by S. K. Gorelov, 7 pp. RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geogr, No 1, 1965, pp 134-139. ACSI 1-7996B ID 2204043065

Third Conference on Mathematical Methods in Geomorphology,(Chronicle D), by V. V. Piotrovskiy, 8 pp. RUSSIAN, per, Iz Ak Nauk SSSR, ser Geog, No 1, 1965, pp 141-147. ACSI I-7966-D ID 2204043065

A Method of Approximate Conformal Mapping of Polygonal Regions Onto a Unit Circle, by I. S. Khara, 9 pp.
UKRAINIAN, per, Dopovidi Ak Nauk UkrRSR, No 4, 1953, pp 289 1293. 9699075
FTD-TT-65-1237

Russian Dialectology, by R. I. Avanesov, S. V. Bromley, et al.
RUSSIAN, bk, Russkaya Dialektologiya Vtoroye Izdaniye, Moscow, 1965, pp 3-305.

JPRS

Moscow People's University of Physical and Technical Knowledge, by O. M. Belotserkovskiy and L. M. Dubnikov, 6 pp.
RUSSIAN, per, Vestnik Vysshy Shkoly, No 6,
Jun 1965, pp. 69-72.
JPRS 32911

USSR Sociological

Islam, by Lyutsian Ippolitovich Klimovich, 304 pp.
HUSSIAN, bk, Islam, 1965, pp. 1-334.
JPRS 33720

The Literary Aspect of Party Work, by G. Kumitsyn, 14 pp.
HUSSTAN, per, Kommunist, No 16, Nov 1965, pp 91102.
JFRS 33281

Biographic

Boris Genrikhovich Ostrovskiy (On His 75th Birthday), by Ye. P. Busygin, A. V. Stupishin.
RUSSIAN, per, Iz Vses Geograf Obshch, No 4, 1965, pp 379-382.
*ACSI I-8784
ID 2204063265

EASTERN EUROPE

Economic

Law No 4021 on the Functioning of the Albanian State Bank, 10 pp.
ALBANIAN, per, Gazeta Zyrtare, No 4, 5 Jul 1965, pp. 132-141.
JPRS 32916

Instructions Governing the Accountability-Election Meetings and Conferences of Trade Union Organs and Organizations, 6 pp. BUIGARIAN, per, <u>Byuletin na Tasps</u>, No 4/5, Apr-May 1965, pp. 1-5. JPRS 33227

Directive Governing the Work of the Auditing Commissions of the Trade Union Organs, 5 pp. BULGARIAN, per, Byuletin na Tasps, No 4/5, Apr-May 1965, pp. 6-9.

JPRS 33227

The Regulation on the Functions, Rights and Obligations of the Ministry of Domestic Trade, 5 pp.

BUIGARIAN, per, Durzhaven vestnik, No 90, 16 Nov 1965, pp. 2-3.

JPRS 33423

Some Problems in the Field of Capital Investment and Sources for Financing Such Investment, by Georgi Manev, 11 pp.
BUIGARIAN, per, Finansi i kredit, No 8, Oct
1965, pp. 3-13.
JPRS 33528

Accumulation, Its Effectiveness, and the Process of Equalizing the Economic Levels of the Socialist Countries, by Stefan Stoilov, 15 pp. BUIGARIAN, per, Ikonomicheska misul, No 8, Oct 1965, pp. 3-17.

JPRS 33559

Distribution and Use of Manpower in TKZS (Cooperative Labor Farms), by Todor Avramov, 16 pp.
BULGARIAN, per, <u>Ikonomicheska misul</u>, No 8, Oct 1965, pp. 101-111.
JPRS 33578

Some Problems in the New System of Planning and Management in the National Economy in State Industrial Enterprises, by Kimitur Manev and Dimitur Karag'ozov, 6 pp. BUIGARIAN, per, Khranitelna promishlenost, No 6, Aug 1965, pp. 3-5.

JPRS 32917

Wages in TKZS (Cooperative Labor Farms) According to Net Product or Net Income, by Georgi Kostadinov, 7 pp.
BULGARIAN, per, Kooperativno zemedelie, No 9-10, Sept-Oct 1965, pp. 11-13.
JPRS 33235

Wheat Varieties in Bulgaria, by Todor Mitkov, 6 pp.

BUIGARIAN, per, Kooperativno zemedelie, No 910, Sept-Oct 1965, pp. 20-22.

JPRB 33235

Eastern Europe Economic (Contd)

Crop Structure in Irrigated Areas, 6 pp. BUIGARIAN, per, Kooperativno zemedelie, No 11, Nov 1965, pp 16-18
JPRS 33347

Bulgarian Foreign Trade, by Avakum Branichev, 13 pp.
BULGARIAN, per, Naruchnik na agitatora,
No 16, Aug 1965, pp. 24-42.
JPRS 33219

Speeches by Party Central Committee Secretary Frantisek Penc and by Minister of Transportation Alois Inda, on the Occasion of Czechoslovak Railroad Workers' Day, 24 pp. CZECH, per, Doprava, No 5, 1965, pp. 321-330. JPRS 33538

Railroad Testing Track at Velim, by Vladimir Kostoval, 8 pp. CZECH, per, Doprava, No 5, 1965, pp. 337-340.
JPRS 33538

Use of Large Polyethelene Containers for Transport of Liquids. CZECH, per. Obaly, No 2, 1964, pp 60-62. *ACSI I-8773
ID 2204002166

Dairy and Cheese-Making Industry in Hungary by V. Knez. CZECH, per, Prumysl Potravin, Vol XVI,(8), 1965, pp 404-408. *ACSI I-9177 ID 2204003166

Rumanian Highways, by Evzen Popisil.
CZECH, per, Silnichi Doprava, No 8, 1965, pp 12, 13.
ACSI I-8531
ID 2204050765

The Functions of the Market in the Deepening of the Socialist International Division of Labor, 15 pp.

(ERMAN, per, <u>Aussenhandel und Innerdeutscher</u>

Hendel, No 9, Sep 1965, pp 30-34.

JPRS 32918.

Utilization of Multilateral Clearing for Intensifying Economic Cooperation Among the Socialist Countries, by Dr H. G. Szalkiewicz, 8 pp. CERMAN, per, Aussenhandel und Innerdeutscher Handel, No 9, Sep 1965, pp 35-37.

JPRS 32918

Basic Problems of the Long-Range Development of International Division of Labor in Leading Branches of Industry, by Dr. J. Bandelin, 12 pp. (MROAN, per, Aussenhandel und Inner-deutscher Bendel, No 10, Oct 1965, pp 28-32.)
JPRS 333299

Observations on the Decree Concerning the Export of Industrial Installations, by H. Struewing, 9 pp. GERMAN, per, Aussenhandel und Innderdeutscher Handel, No 11, Nov 1965, pp. 9-12.

JPRS 33576

Information on the Foreign Trade Academy, by H. Struewing, 6 pp. GERMAN, per, Aussenhandel und Innerdeutscher Handel, No 11, Nov 1965, pp. 20-21.

JPRS 33576

On the Priority Development of the Construction Materials Industry, by Dr. H. Muller, 7 pp.
GERMAN, per, Baustoff-industrie, Vol VIII, No 11, Nov 1965, pp. 321-323.
JPRS 33538

The Economic Profit of Irradiating Potatoes, by J. Herrmann, H. J. Buhr.
GERMAN, per, Die Bebensmittel-Industrie
No 12, 1965, H. 5, pp 182-183.
*ACSI I-8599
ID 2204054065

Innovations in the Electrical Equipment of Belt Conveyers, by 0. Rottky, 13 pp. (ERMAN, per, Bergbautechnik, Vol XV, No 10, Oct 1965, pp 508-510.

JPRS 33301

Weather and Crop Report for the Period 11 October - 10 November 1965, by D. Krumbiegel, 6 pp. GERMAN, per, Die Deutsche Landwirtschaft, No 12, 1965, 2 pp. JPRB 33578 Eastern Europe Economic (Contd)

Efficient Hog Production, by Dr. Hofmann, 8 pp. GERMAN, per, <u>Die Deutsche Landwirtschaft</u>, No 12, Dec 1965, pp. 499-501.
JPRS 33558

Southern Ring of Carrier Frequency Long-Distance Cable Completed, by Siegfried Knoblock, 7 pp. GERMAN, per, Die Deutsche Post, No 11, Nov 1965, pp. 329-331. JPRS 33423

Seven Years of Directional Radio Transmission for the East German Railroad, by H. Schukaj, 11 pp. GERMAN, per, Der Fernmelde-Praktiker, Sept 1965, Vol 5, No 9, pp. 193-196.
JPRS 32925

Hydrostatis Drive of Wheel and Track Vehicles, by A. Zwicky, 7 pp. GERMAN, rpt, Hydrostatischer Antrieb von Rader-und Raupenfahrzeugen, 1964. ACSI 1-7855 ID 2893005564

Influence of Storage on the Quantity of Dehydrated Products, by Paul Gorling. GERMAN, per, Die Industrielle Obst und Gemuseverwertung, 1965.
*ACSI 1-8433
ID 28340265

Roads Flowing Along, by Freyer, 7 pp. GERMAN, per, Jugend und Tecknik, No 10, Oct 1965, pp 944-946.
DIA LN 253-65

Atmospheric Influences on Merchandise, 8 p. GERMAN, per, Die Lebensmittel-Industrie 12, No 5, 1965, pp 190-192. ACSI I-8740 ID 22040588 65

Analysis of Early Summer Meningo Encephalitis in Austria in 1964, by H. Moritsch, Ch. Kunz, 4 pp. GERMAN, rpt, Nachweis der Fruhsommer-Meningo-Encephalitis (FSNE) in Osterrich 1964, 1965. AUSI 1-8393 ID 2214015565

Report on 1964 Budget Accounting, 5 pp. GERMAN, np, National-Zeitung, 4 Nov 1965, p. 4.

JPRS 33390

The State of the Construction Industry of East Germany, by Dr. Gunter Mittag, 11 pp. GERMAN, per, Neuer Weg, No 21, Nov 1965, pp. 1049-1059.

JPRS 33423

Principles of Fresh Keeping Packaging.
GERMAN, per, Progress in the Processing
Techniques of the Packaging and
Foodstuffs Industry, 1962.
*ACSI I-8388
ID 2204044765

Physical Canning Process.
GERMAN, per, Progress in the Processing
Techniques of the Packaging and
Foodstuffs Industry, 1962.
*ACSI I-8388
ID 2204044765

A Testing Method of Foodstuffs, by R. Heiss. GERMAN, per, Progress in the Processing Techniques of the Packaging and Foodstuffs Industry, 1962. *ACSI I-8388 ID 2204044765

The Legal Regulations of Price Relations Among the CRM Countries, by G. Willms, 1h pp. CERMS, per, Recht in Aussenhandel, supplement to Aussenhandel und Immerdantscher Bandel, No 10, 1965, pp 1-6. JFRS 33299

The East German Brown Coal Industry, by Julius Goetz, 10 pp. GERMAN, per, SEZ Archiv, No 19, Oct 1965, pp. 300-304.

JPRS 33584

The Packaging Industry in the Federal Republic of Germany, by W. Schoppmayer. GERMAN, per, Schweizer Verpackungs-und Transportkatalog, 1964, pp 117-124. *ACSI 1-8417
ID 2893001165

Eastern Europe Economic (Contd)

Status of Port Service, by E. Scheunemann and G. Ulbricht, 5 pp. GERMAN, per, Seeverkehr, Vol V, No 10, Oct 1965, pp. 595-601.

JPRS 32925

Palleting Fruit and Vegetables and Manual on Electrohydraulic High Lifting Car, GERMAN, per, die Technik, No 8, 1965, pp 566-568. ACSI I-843: ID 2204049065

Technical Report on the Caloway P System. GERMAN, rpt, Technischer Bericht Über Den Heizbelag System "Calorway P", 1965.
*ACSI I-7886
ID 180605265

Report on a Study of the Economics of Commercial Vessels Propelled by Nuclear Energy, by Hans-Livar Aass.
GERMAN, per, VDI Zeit, Vol CVI, No 32, 1964, pp 1611-1616, 9231661
AEC-Tr-6626

The Work of the Research Section of the Packaging Institute in Dresden, by H. J. Tenzer. GERMAN, per, Die Verpackung, Nov/Dec 1964, pp 20-23. *ACSI I-7863 ID 2204038665

Storage and Packing of Dried Foodstuffs, by Weisser.
GERMAN, per, Verpackung Magazine, No 8, 1964, pp 20-30.
*ACSI 1-7900
ID 2204042365

Controlled Research of Aroma Permeability of Packing Material and Their Adaptability for Foodstuffs, by R. Heiss, L. Robinson. GERMAN, per, Verpackungs Rundschau, No 1, 1964, pp 1-7.

*ACSI I-8391
ID 2204045065

The Special Vehicle Program of the Faum Works, by G. Popenbroock. GERMAN, per, Wehr und Wirtschaft, No S, 1964, pp 229-232. *ACSI I-8419
1D 2204047065

Reorganization of Material Management in the Building Industry Through Scientific Planning, by Karl Schmiechen, 6 pp.
GERMAN, per, Die Wirtschaft, No 40, 7 Oct 1965, p 3
JPRS 33329

Effective Use of Fertilizers by Application of the Principles of the New Economic System, by H. Simchen, 7 pp. GERMAN, per, WTF Feldwirtschaft, No 10, Oct 1965, pp. 434-435.

JPRS 33235

Three Demands of Agriculture on the Fertilizer Industry by O. Schroeder, 7 pp. GERMAN, per, WTF Feldwirtschaft, No 10, Oct 1965, pp. 440-442.

JPRS 33235

Concentration of Agricultural Freight Traffic at Car Loading Railroad Junctions, by G. Jalass and R. Schwarzbach, 12 pp. CERMAN, per, Zeitschrift fuer Agraroekonomik vol 8, No 11, Nov 1965, pp. 340-344.

JPRS 33702

Underground Gas Storage in the Demjen-East Oil Field, by Imre Ferennczy and Zoltan Gombos, 13 pp. HUNGARIAN, per, <u>Banyaszati Lapok</u>, No 9, Sept 1965, pp. 629-633. JPRS 32925

Organizational Problems of Purchasing Agricultural Products, by Dr. Imre Sandor, ll pp. HUNGARIAN, per, <u>Blelmezesi Ipar</u>, No 7, Jul 1965, pp. 213-217.

JPRS 33385

Economic Efficiency of the Export of Beef Cattle, by Dr. Gyula Simon, 6 pp. HUNGARIAN, np, Figyelo, 19 Nov 1965, p. 8. JPRS 33385

Organisation, Development and Tasks of the Aluminum Industry Planning Institute, by Andres Boker, 11 pp.
HUMMARIAH, per, Kobassati Lapok, Vol MCVIII, No 10, Oct 1965, pp 454-459.
JPBS 33,339

Eastern Europe Economic (Contd)

Regulated Market Competition between Enterprises of the CEMA Countries, by Akos Balassa, 13 pp. HUNGARIAN, per, Kozgazdasagi Szemle, No 11, Nov 1965, pp. 1277-1288. JPRS 33559

Foreign Exchange Factor and Foreign Trade Mechanism, by Jeno Redei, 9 pp. HUNGARIAN, per, Kozgazdasagi Szemle, No 11, Nov 1965, pp. 1308-1314.
JPRS 33701

Twenty Years of Transport in Humgary, by Csanadi, Gyorgy, 6 pp.
HUNGARIAN, per, Kozlekedestudomanyi Szemle,
No 4, Apr 1965, pp 137-139.
DIA LN 255-65

Our Problems of Research Planning, by Jozsef Takacs, 12 pp. HUNGARIAN, per, Magyar Tudomany, Vol 10, No 9, Sept 1965, pp. 579-587.

JPRS 33640

Problems Related to the Use of Mathematics, 6 pp.
HUNGARIAN, per, Magyar Tudomany, Vol 10,
No 9, Sept 1965, pp. 588-592.
JPRS 33640

Conducting the Practice Drill, by Sandor Sovago, 12 pp.
HUNGARIAN, per, Polgari Vedelem, No 7,
July 1965, pp 19.
DIA LN= 221-65

Development of Crop Production and Animal Husbandry, by Dr. Bela Fazekas, 39 pp. HUNGARIAN, per, Statisztikai Szemle, No 11, Nov 1965, pp. 1059-1083. JPRS 33578

The Development of Mechanization in the State Construction Industry, by Laszlo Keller, 19 pp.
HUNGARIAN, per, Statisztikai Szemle, No 11,
Nov 1965, pp. 1104-1114.
JPRS 33538

Producer's Prices of 1965-66 for Chops Grown on Contract Basis, by Dr. H. L., 17 pp. HUNGARIAN, per, <u>Termeloszovetkezetek Tanac-</u> sadoja, No 43, 29 Oct 1965, pp. 1-8. JPRS 33385

Goals of the Plastics Industry, by Henryk Stepniak, 8 pp. POLISH, per, Chemik, No 8/9, Aug/Sept 1965, pp. 289-291.

JPRS 33490

Problems Connected with the Development of the Phosphate and Complex Fertilizer Industry, by Waclaw Sapinski, 27 pp. POLISH, per, Chemik, No 8/9, Aug/Sept 1965, pp. 296-305. JPRS 33490

Soviet Review of Current Developments in Congo (Brazzaville) by V. Kuznetsov, 5 pp. POLISH, np, Czerwony Sztandar, 3 Nov 1965, p. 3.

JPRS 33149

Trends in the Development of High-Speed Cutting Steel, by Prof. Dr. Engr. Edward Zmihorski, 11 pp. POLISH, per, Hutnik, Vol 32, No 10, Oct 1965, pp. 353-361. JPRS 33225

Strategy in the Development of Technology, by Jozef Pajestka, 5 pp. POLISH, np, Kultura, No 47, 21 Nov 1965, pp. 1-2.
JPRS 33390

Producer Cooperative Economic Results in 1964, by Antoni Gemel, 6 pp. POLISH, per, Nowe Rolnictwo, No 19, 1-15 Oct 1965, pp. 7-8.

JPRS 33235

Tasks of the State Machinery Centers in 1966-1970, by Franciszek Wojciechowski, 9 pp. POLISH, per, Nowe Rolnictwo, No 20, Oct 1965, pp 1-3
JPRS: 33347

Eastern Europe Economic (Contd)

Tasks of the "Mera" Association of Automation and Measuring Apparatus Industry and the Industrial Institute for Automation and Measurement in the Coming Five-Year Plan, by W. Raczkowski and L. Kowalski, 9 pp. POLISH, per, Pomiary Automatyka Kontrola, No 10, Oct 1965, pp. 409-411.

JPRS 33584

Program for Development of Public Services and Conditions for Its I iplementation, by Wlodzimierz Lechowicz, 16 pp. POLISH, per, Przeglad Drobnej Mytworczosci, No 19, Oct 1965, pp 1-7
JPRS 33329

Farm Animal Population in Economic Year 1964/1965, by Roman Buczynski, 8 pp. POLISH, per, Przeglad Hodowlany, No 13, 1-15 Oct 1965, pp. 2-5.
JPRS 33235

Slaughter Horses Export Possibilities in 1966-1970, by Mgr. Stefan Kusmierski, 8 pp. POLISH, per, Przeglad Hodowlany, No 13, 1-15 Oct 1965, pp. 12-14. JPRS 33235

Purchases of Slaughter Cattle, by Julian Kielichowski, 7 pp. POLISH, per, Przeglad Hodowlany, No 15, 1-15 Nov 1965, pp. 1-2.
JPRS 33578

Evaluation of Milk Productivity of Cows in 1964, by J. Kwasieborski, K. Przybylo, and F. Golaszewski, 25 pp. POLISH, per, Przeglad Hodowlany, No 15, 1-15 Nov 1965, pp. 5-12.

JPRS. 33578

Upg: ading and Improving the Quality of Products of the Wood Industry, 1966-70, by Piotr Pejta, 10 pp. POLISH, per, Przemysl Drzewny, No 10, Oct 1965, pp. 361-364.
JPRS 33610

New Furniture Factory at Zamosc, 9 pp. POLISH, per, Przemysl Drzewny, No 10, Oct 1965, pp. 385-387.
JPRS 33610

Opole Silesia: Outline of Economic Geography, by Ludwik Straszewicz. 251 pp. POLISH, per, Slask Opolski: Zayrs Geografii Gospodarczej, 1965. CFSTI TT 61-11315

Evaluation of the Achievements of the Five-Year Plan 1961-1965 in the Black Coal Industry, by Mgr. Engr. Jan Mitrega, 15 pp. POLISH, per, Wiadomosci Gornicze, Vol XVI, No 10, Oct 1965, pp. 290-296. JPRE 33225

New Bonus System for White-Collar Workers in Industry, by Tadeusz Pietrzak, 13 pp. POLISH, per, Wiadomosci Narodowego Banku Polskiego, No 7, Sept 1965, pp. 293-298. JPRS 32917

Economically Unjustified Stock-piling, 1962-1964, and Its Causes, by Mieczyslaw Osiecki, 12 pp.
POLISH, per, Wiadomosci Narodowego Banku Polskiego, No 9, Sept 1965, pp. 310-314.

JPRS 32917

Reconstruction of Polish Agriculture, by Stanislaw Guewa, 15 pp. POLISH, per, Wies Wspołczesna, No 10, Oct 1965, pp. 28-40.
JPRS 33558

Some Problems of Internal Trade, by Emil Kolodziej, 12 pp. POLISH, per, <u>Wies Wspolczesna</u>, Oct 1965, pp. 41-51.
JPRS 33538

Peasant Farming Income in 1961-1964, by Helena Chojnacka, 22 pp. POLISH, per, Zagadnenia Ekonomiki Rolnej, No 5, 1965, pp. 17-38. JPRS 33698

State Farms Achievements in 1964/1965, by T. Hajduczenia, 5 pp.
POLIBH, per, Zagadnienia i Materialy, No 20, 16-31 Oct 1965, pp. 23-25.
JPRS 33235

Eastern Europe Economic (Contd)

Agricultural Circles' Autonomy and Mechanization of Agriculture, by A. Pieczynski, 5 pp. POLISH, per, Zagadnienia i Materialy, No 20, 16-31 Oct 1965, pp. 26-29.

JPRS 33235

Criteria for Economic Evaluation of State Farms, by Jan Krzywonos, 7 pp. POLISH, per, Zycie Gospodarcze, No 46, 14 Nov 1965, p. 8.
JPRS 33235

Steam Turbine Manufacture at the Resita
Machine Construction Plant, by Mircea Cirdu,
8 pp.
HUMANIAN, per, Energetica, Vol XIII, No 9,
Sept. 1965, pp. 403-407.
JPRS 33527

Establishment and Utilization of Funds for Organizing Construction Sites, by Aurel Ghigu, 9 pp.

HUMANIAN, per, Finante si credit, Vol XI,
No 10, Oct 1965, pp. 25-33.

JPRS 33702

Important Tasks for the Organs of the Investment Bank, by Al. Pintea, 5 pp.

HUMANIAN, per, Gazeta Finantelor, Vol 13,
No 638, 6 Oct 1965, pp. 1, 4-5.

JPRS 32917

Perspectives for the Development of the Textile Industry in 1966-1970, by N. Popa, 6 pp.

HUMANIAN, per, <u>Industria Textila</u>, No 7, Jul 1965, pp. 345-350.

JPRS 32925

Production and Utilization of Programmed Machine Tools, 7 pp.

RUMANIAN, np, Manca, 19 Nov 1965, p. 3.

JPRS 33527

Economic Effectiveness of Investments in Agriculture, by S. Vrejba, 11 pp. RUMANIAN, per, Probleme Agricole, No 8, Aug 1965, pp 4-13
JPRS 33347

Effect of the Overall National Economic Growth on the Volume and Structure of Foreign Trade, by I. Savu, 16 pp. RUMANIAN, per, Probleme economice, No 10, Oct 1965, pp. 56-69.

JPRS 33219

improvement of Transportation Activities, by I. Griga, 16 pp. RUMANIAN, per, Probleme Economice, Vol XVIII, No 11, Nov 1965, pp. 71-83. JPRS 33610

Aspects of the Growth of Labor Productivity in the Chemical Industry, by A. Oati, Gh. Petcu, and N. Visinoiu, 14 pp. RUMANIAN, per, Revista de Chimie, No 9, Sept 1965, pp. 443-446.

JPRS 33389

Results and Perspectives of Growth for the Bconomic Effectiveness of Forest Utilization, by P. Alexandrescu, 20 pp. RUMANIAN, per, Revista de statistica, No 10, Oct 1965, pp. 33-45.

JPRS 33698

A Simplified Method for Establishing Prices of Products Destined for Export, by Mircea Manoliu and Sever Stoia, 9 pp.
RUMANIAN, per, Revista de statistica, No 10, Oct 1965, pp. 51-57.
JPRS 33701

Continuous Progress of Socialist Agriculture, 6 pp.
RUMANIAN, per, <u>Vista Economics</u>, No 47, 19
Nov 1965, pp. 1, 3.
JPRS 33698

Electric Power in the National Economy of the European Socialist Countries, by S. Nizhnyaya, 12 pp. RUSSIAN, per, Nauchnyye Doklady Vysshey Shkoly, Ekonomicheskiya Nauki, No 6, 1965, pp 23-31 JPRS 33329

Tendencies in the Davelopment of Yugoslav Foreign Trade, by Dr Milan Aleksic, 17 pp. SERBOCROATION, per, Medjunarodni problemi, No 2, Belgrade, 1965, pp 37-52.

JFRS 33299

Eastern Europe Economic (Contd)

Membership of Slovak Group of Slovak Academy of Sciences in Czechoslovak Chemical Society, 16 pp. SLOVAK, per, Chemicke Zvesti, No 11, 1965, pp. 865-879.
JPRS 33641

On Certain Transportation Problems of the Central Slovak Region, by Jozef Madaj. SLOVAK, per, Doprava, No 13, 1965, pp 211-219. *ACSI I-8472

Political

The Annual Accountability-Election Meetings and Conferences, 9 pp BULGARIAN, per, Parties shivet, No 14, 1965, pp 3-9.

JPRS 33327

Creation of a Marxist-Leninist World Outlook -- A Main Task of Party Education, by Vasil Ivanov, 12 pp.

BULGARIAN, per Partien shivot, No 14, Oct 1965, pp 10-18.

JFBS 33327

Let Us Not Underestimate the Primary Party Organisation, 6 pp. BULGARIAN, per, Parties shivet, No 14, Oct 1965, pp 33-37. JPRS 33327

Public Opinion Poll Concerning Eighth Congress of the Union of Yugoslav Communists, by Firdus Dzinic, 25 pp. CROATIAN, per, Socijalizam, No 10, Oct 1965, pp. 1288-1310.

JPRS 33719

International Conference at Lepzig, by Hanousek. CZECH, per, Obaly, No 4, 1965, p 123. ACSI I-8587 ID 2204052865 Eastern Europe Political (Contd)

On Service with the Grenztrabant, by Waren. GERMAN, per, Armee Rundschau, No 6, 1965, pp 35-37.
ACSI I-8420
ID 2204047965

Decree on Compulsory Registration in the German Democratic Republic (Registration Order) 15 July 1965, 13 pp. GERMAN, per, Gesetzblatt der Deutschen Demokratischen Republik, Part II, No 9, 2 Nov 1965, pp. 761-766.
JPRS 33236

Soviet Zone-French Contacts on the Metropolitan Level, 5 pp. GERMAN, per, IME-Informations- und Archivdienst, No 11, 11 Nov 1965, pp. 1-7. JPRS 33236

The PCI's Eleventh Congress: Background, Tendencies, Preparation, by Giuseppe Galasso, 7 pp.
ITALIAN, per, Nord e Sud, Vol XII, No 70, (131) Oct 1965, pp. 6-25.
JPPS 33481

Adam Schaff's Discussion on "Marxism and the Human Individual", 20 pp. POLISH, per, Nowe Drogi, No 12, Dec 1965, pp. 154-170.
JPRS 33716

An Infra-Red Simulator For Training in Night Firing, by Leonard Jurewicz, 119 pp. POLISH, per, Przeglad Wojsk Ladowych, No 2, Feb 1965.
DIA LN 295 F
ID 2878019365

Waiting for the Soldiers, by Janusz Szymanski, 9 pp. POLISH, per, Zolnierz Polski, No 18, May 2, 1965, DIA LN 8-65

The Territorial Defer (0.T) Season, by Z. Flisowski, 9 pp.
POLISH, per, Zolnierz Polski, No 18,
May 2, 1965, pp 6-7.
DIA LN 8-65

Eastern Europe Political (Contd)

Ideology of Alienation or Alienation of Ideology, by Jan Szewczyk, 11 pp. POLISH, per, Zycie Literackie, No 46, 14 Nov 1965, p. 11, and No 47, 21 Nov 1965, p. 11.

JPRS 33572

A Study of Road Traffic In Brasov, by Victor Gutu, 20 pp. RUMANIAN, per, Revista Transporturilor, No 4, 1965, pp 175-187. ACSI I-7676 ID 2204030765

Speech by Chairman of Council of Ministers Ion Gheorghe Maurer to the Grand National Assembly on the Fulfillment of the 1965 State Plan and the State Plan for 1965, 19 pp. RIMANIAN, np, Scinteia, 22 Dec 1965, pp. 1, 2,3.

JPRS 33572

Speech of Gheorghe Apostol on Draft Law Concerning Labor Safety Given at the Grand National Assembly Session, 10 pp. RUMANIAN, np, Scinteia, 23 Dec 1965. pp. 1,2. JPRS 33572

Yugoslavia and Pakistan, 7 pp. SERBO-CROATIAN, per, <u>Jugoslovenski Pregled</u>, No 6, June 1965, pp 238-240.
JPRS 32918

Yugoslavia and Tunisia, 8 pp. SERBO-CROATIAN, per, <u>Jugoslovenski Fregled</u>, No 6, Jun 1965, pp 235-237.
JPRS 32918

Eastern Europe Military

Decorations of Members of the Collective of Military Industry, 9 pp. CROATIAN, per, Narodna Armija, 8 Oct 1965, DIA IN 225-65

Issue No 4, of Military-Economic Review, by M. Jelic, 9 pp.
CROATIAN, per, Narodna Armija, 8 Oct 1965, DIA IN 225-65

Twenty Years of Military Industry in Yugoslavia, by Ivica Kukoc, 9 pp. CROATIAN, per, Narodna Armija, 8 Oct 1965, p 7.
DIA IN 225-65

Modern Automatic Rifles, by Steven Korda, 10 pp. CCBCH, per, Front Ilustrovani Vojni List No 22, 24 Oct 1965, pp 22-23. DIA IN 263-65

Underwater Tank Maleuvers, by Josef Pesl. CZECH, rpt, Ogel Pod Hladinou, 5 Nov 64 2 pp. Inclusure to 1824046564
*ACSI I-8621
ID 1824046564

The Atom Bomt-The Unavoidable Weapon; Biological War Possible Without Epidemics; The First Gas Attack Killed 5,000 Men; New Means Have a Time Limited Effect. GERMAN, rpt, Die Atombome-die Unvermiedliche Waffe. Das Graven von Hiroshima lebt noch. Biologischer Kreg Ohne Epidemien Moglich. Der erste Gasaugriff Totete 5,000 Mann. Neuere Mitte Haben Zeitbegrenzte Wirkung, 1965.

*ACSI I-8771
ID 2204001966

Construction and Utilization of Artillery Weapons, by Yu. T. Yurin. GERMAN; rpt, Aufbau und Nutzung von Artilleriewaffen, 348 pp.
*ACSI I-7761
ID

Equipment for Decontaminating and Deactivating of Weapons, Equipment and Care, by W. Blumenstein.
GERMAN, per, Entgiftungs-und Entaktivierungsgerate, 1965.
*ACSI 1-8488
ID 2218288765

Eastern Europe Military (Contd)

Civil Aircraft in the Federal Republic, by G. Bock, B. Stieler, 22 pp. GERMAN, per, Flugwelt, No 9, Sep 1965, pp 736-740. DIA LN 224-65

20-mm Automatic Cannon, Type 822, Hispano-Suiza. GERMAN, brochr, Hispano Suiza (SUSSE) Geneve No 307, 11 pp. *ACSI I-9183 ID 2204003766

Air Raid Protection -- Conventional Drop Material. GERMAN, per, <u>Luftschutz</u>, No 11, 1962, pp 186-231. ACSI I-8499 ID 2213773064

Change in the Shape of the T-54 Soviet Standard Tank, GERMAN, per, Soldat Und Technik, May 65, pp 276-277. *ACSI I-8619 ID 2204056065

Tank Recognition Quiz-Soviet Land-Air Fighter Tank ASU-57, and Heavy Anti-Tank Weapon, by H. Wein.
GERMAN, per, Soldat Und Technik, No 7, July 1965, pp 371, 374-377.
*ACSI I-8738
ID 2204059765

Principles of Feeding Flight Personnel in the Light of New Regulations, by S. Szopa POLISH, per, Wojskowy Przelglad Lotniczy (Military Air Review)mo 4, 9, Sept 1964, pp 56-58. *ACSI I-8752 ID 2213561264

A Geographic Description, by I. S. Gruescu, B. Vulcu.
RUMANIAN, per, Natura, Seria Geografie Geologie, No 4, 1965, pp 15-28A.
ACSI I-8560A
ID 2204051365

Eastern Europe Military (Contd)

Use of the Expendable Material Decontamination Kit, Troop Equipment, 21 pp. GERMAN, rpt, Verbrauchsmaterial Dekontaminierung, Satz Truppenausstattung, 1965. ACSI 1-8404 ID 2214013765

Problems for Air Defense, by D. F. von Pelt. GERMAN, per, Wehr und Wirtschaft, No 4, 1965, pp 194-196.
*ACSI I-8414
ID 2204047365

Discharge Probability in Firing With Automatic Weapons Part II, by Goran Lind. GERMAN, per, Wehrtechnische Monatshefto, Apr/May 1964, pp 135-140. *ACSI I-7875 ID 2204039965

At the Threashold of the Second Training Period, by Tibor Nyiri, 12 pp.
HUNGARIAN per, Polgari Vedelem, No 7, July 1965 pp 3.
DIA LN 221-65

Examination of Field Commanders, by Plavits, 12 pp.
HUNGARIAN, per, Polgari Vedelen, No 7,
July 1965, pp 5.
DIA IN 221-65

Some Training Problems in the Field of a Contamination Air-Reconnaissance, by Jozef Bazior, 119 pp.

POLISH, per, Przeglad Wojsk Ladowych, No 2, Feb 1965, DIA LN 295 F ID 2878019365

An Infantry Squad on Ambush Mission, by Romald Szulewski, 119 pp POLISH, per. Przeglad Mojsk Ladowych, No 2, Feb 1965, DIA LN 295 F ID 2678019365

Eastern Europe Military (Contd)

A Cadet as Commander, Instructor and Tutor During Practical Periods in a Unit, by Leon Nowak,119 pp.
POLISH, per, Przeglad Wojsk Ladowych, No 2, Feb 1965, pp 5-85.
DIA LN 295 F
ID 28780193-65

A Caterpillar or Wheeled Personnel Carrier, by Aleksander Kropownicki, Andrzej Kwiatkowski, 119 pp.
POLISH, per, Przeglad Wojsk Ladowych, No 2, Feb 1965, pp 96-108.
DIA LN 295 F
Id 2878019365

A Motorized Infantry Squad on Reconnaissance Patrol, by Stanislaw Pikula, 119 pp. POLISH, per, Przeglad Wojsk Ladowych, do 2, Feb 1965, pp 134-136. DIA IN 295 F ID 2878019365

The Liberation of Hungary and Rastern Austria, by Col V. Matsulenko, 6 pp. RUSSIAN, per, Voyenno-istorioheskiv shurnal, No 9, 1965, pp 77-80.
JPRS 33097

Combat Characteristics and Purpose of the Hand Mortars, by G. Vukovic.
SERBOCROATIAN, per, Front, 14 Mar 1965, pp 8, 9.
ACSI I-&390
ID 2204044965

Geographic

Consultation Centers for Innovators, Inventors and Rationalizers in the Eastern Slovale Region, by S. Hlub. 4 pp. CZECH, per, Technika Prace, (Kweten 1964,) pp 333-334. *ACSI I-8725 ID 2204058365

The Martyred Soil, by M. Nowikow. GERMAN, per, Armee Rumdschau, No 4, 1965, pp 33-35. ACSI 1-8622 ID 2204056365 Eastern Europe Geographic (Contd)

Petermann's Geographic Communications, by
L. L. Vendrov, 14 p.
GERMAN, per, Bemerkungen uber ein einheitliches Tiefwassersystem der wichtigsten
Binnenschiffahrtswege im Europaischen Teil
de Sowjetunion, Vol CVIII, No 3, 1964.
Army Map Service

World Atlas by Polish Army Topographical Service, by Dr. Wieslaw Kaprowski, 14 pp. POLISH, per, <u>Przeglad Goodezyjny</u>, No 8, Aug 1965, pp. 316-319. JPRS 33259

The Budapest Conference on Land Utilization (6-10 May 1964)
RUSSIAN, per, Iz Ak Nauk SSSR, Ser
Geograf, No 5, 1964, pp 98-101.
*ACSI I-8562D
ID 2204051565

Sociological

Approval of Directive on Legal Advisers, 8 pp. BUIGARIAN, per, <u>Durzhaven vestnik</u>, No 89, 12 Nov 1965, pp. 1-2.
JPRS 33386

Regulations Concerning Procedure to be Followed in Granting Travel and Residence Permits to Aliens in Yugoslavia, and Regulations Concerning Forms of Such Permits, 40 pp.

CROATIAN, per, Sluzbeni List SFRJ, Vol XXI, No 49, 3 Nov 1965, pp. 1661-1674.

JPRB 33461

Discussion of Activities of the Society of Planned Parenthood, by Marcin Kacprzak, 8 pp. POLISH, per, Argumenty, No 47, 21 Nov 1965, pp. 3, 9.
JPRS 33461

Eastern Europe Sociological (Contd)

Some Ideological and Educational Problems of the Socialist Youth Union, by Stanislaw Hasiak, 14 pp.

POLISH, per, Nowe Drogi, No 11, Nov 1965, pp. 19-30.

JPRS 33227

Shortening Completion Schedules in the Construction of Apartments, by M. Veintraub, 15 pp.
RUMANIAN, per, Probleme Economice, Vol XVIII, No 11, Nov 1965, pp. 60-70.
JPRS 33610

Financing and Income Distribution in Health Institutions, by Dusan Andjelkovic, 12 pp. SERBO-CROATIAN, per, Jugoslovenski pregled, No 7-8, Jul-Aug 1965, pp. 271-274.

JPRS 33386

WESTERN EUROPE

Economic

National Budget for Fiscal Year 1966, 24 pp. DUTCH, rpt, Hague, DIA LN 195-65 ID 2868016065

French and Italian Confederations of Labor to Pool Efforts to Defend Workers' Interests in Western Europe, 5 pp. FRENCH, np, Drapeau Rouge, 14 Dec 1965, p. 5. JPRS 33716

Third International Research Symposium of the Packaging Institutes, held in Stockholm, Sweden, from 16 to 18 September 1964, (Conference Proceedings, GERMAN, per, Verpackungs Rundschau, Vol XV, No 12, 1964, pp 89-95.

Western Europe Political

Resolution Adopted by the Congress of the Danish Communist Party Lists Its Future Tasks, 5 pp.

DANISH,np, Land og Folk, 17 Nov 1965, p. 6.

JPRS 33239

Osterling Reviews Jan Johansen's Book on Bastern Europe, by Kjeld Osterling, 5 pp. DANISH, np, Land og Folk, 9 Dec 1965, p. 7. JPRS 33547

Lindgreen on: Class Struggle and Socialism, by Jorgen Lindgreen, 21 pp. DANISH, per, <u>Tiden</u>, Vol 26, No 4, 1965, pp. 152-168.
JPRS 33239

Changing Position of Communist Party Within Political and State System of Finland, by Jorma Simpura, 5 pp. FINNISH, np, <u>Kansan Uutiset</u>, 23 Nov 1965, p 4. JPRS 33286

Prospects for the Thirty-Sixth Congress of the Italian Socialist Party, by S. Vossiliev, 6 pp. FRENCH, np, Le Drapeau Rouge, 6 Nov 1965, p. 20. JPRS 33204

Brussels University Political Secretary Sees Need for Union of Socialist Organizations, by Jacques J. Losman, 5 pp. FRENCH, np, Le Drapeau Rouge, 9 Dec 1965, p. 6. JPRS 33547

'Solemn Declaration' and 'Minimum Program' Issued by the Pro-Chicom Splinter Group of the French CP in Marseille, 7 pp. FRENCH, per, La Federation des Cercles Marxistes-Leninistes, 15 Nov 1965, p. 4.

JPRS 33409

Espionage - A Reality, 12 pp.
FRENCI, bk, L'Espionage....Une Realite,
ACSI I-8709
ID 2204057965

Western Europe Political (Contd)

The Sixth Congress of the Portuguese Communist Party, 7 pp.
FRENCH, per, France Nouvelle, No 1047, 10-16 Nov 1965, p. 21.
JPRS 33204

French Correspondent Analyzes Evolution of Sino-Soviet Conflict, by Bernard Feron, 5 pp. FRENCH, per, Le Monde Diplomatique, No 41, Dec 1965, p. 5.

JPRS 33681

The Workers Betrayed by the Unions and the Krushchevist Communist Party, by Maurice Delogne, 5 pp. FRENCH, per, La Voix du Peuple, Vol III, No 49, 3 Dec 1965, p. 15.
JPRS 33604

Problems of National Defense in Other Nato States (IX); In the Netherlands the Accountant's Pen Governs, by Hans von Zitzewitz, 8 pp. GERMAN, per, Die Bundeswehr, No 9, Sep 1965, p 307.
DIA LN 229-65

Italian revolutionary Communists Discuss World Congress of Fourth International, 7 pp.
ITALIAN, per, Bandiera Rossa, No 11, Dec 1965, pp. 1 & 6.
JPRS 33716

Italian Social Democratic Comment on Communist Tactics in South America, by Georges Albertini, 8 pp.
ITALIAN, per, Corrispondenza Socialista,
No 8-9, Aug-Sept 1965, pp. 407-411.
JPRS 33716

Italian CP Magazine Discusses Party Unity, by Arturo Colombi, 5 pp. ITALIAN, per, <u>Rinascita</u>, No 48, 4 Dec 1965, pp. 8-9. JPRS 33604

Western Europe Political (Contd)

Rinascita Sponsors Meeting of Left-Wing Youth Organizations Leaders on Socialist Unity, by Achille Occhetto, Ciuseppe Pupillo, Claudio Signorile, and Dino Fioriello, 18 pp. ITALIAN, per, Rinascita, No 48, 4 Dec 1965, pp. 19-22.

JPRS 33604

CCIL and CCT Urge United Action by All Unions Regardless of International Affiliation, 5 pp. ITALIAN, np, L'Unita, 11 Dec 1965, pp. 1-2. JPPS 33547

Italian Central Committee Member Discusses Formulation and Application of Political Line, by Attilio Esposto, 5 pp. ITALIAN, np, 1'Unita, 18 Dec 1965, p. 13. JPRS 33716

Aaltonen Affirms Friendship with Soviets; Calls for Cooperation of Labor Parties, by Aimo Aaltonen, 5 pp. NORWEGIAN, np, Friheten, 3 Dec 1965, p. 11. JPRS 33481

Belgian Dissident Socielist Comments on the Sixteenth Belgian CP Congress, by M. Liebman, 5 pp. FRENCH, np, La Gauche, No 41, 30 Oct 1965, p. 3. JPRS 32931

Corsican Marxist-Leninist Group Discusses Mitterand's Candidacy, 5 pp. FRENCH, per, L'Humanite Nouvelle, Vol 1, No 12, Dec 1965, pp. 1-2. JPRS 33481

Marxist-Leninist Group on the Revisionism of the French CP, by Jean Lalande, 10 pp. FRENCH, per, L'Humanite Nouvelle, Vol 1, No 12, Dec 1965, pp. 12-13.

JPRE 33481

From Ben Bella to Boumedienne, by Gerard Chaliand, 8 pp.
FRENCH, per, Partisans, No 23, Nov 1965, pp. 19-24.
JPRS 33245

Western Europe Political (Contd)

Belgian Pro-Peiping Congress and Speeches, 10 pp. FRENCH, np, La Voix du Peuple, No 46, 12 Nov 1965, pp. 6-7.
JPRS 33204

West German View of Coexistence in Transition, by Alard von Schack, 7 pp. GERMAN, per, Aussenpolitik, No 11, Nov 1965, pp. 740-745.

JPRS 33409

Problems of National Defense in Other Nato States (VIII); Belgium's Divided defense Policies, by Horst von Zitzewitz, 7 pp. GERMAN, per, Die Bundeswehr, No 8, Aug 1965, p 275.

DIA LN 228-65

The PSI's Alternative to the Center-Left Coalition, by Fernando Santi, 11 pp. ITALIAN, per, Avanti!, No 253, 24 Oct 1965, p. 5.
JPRS 32931

Onofri Sees Congress as Opportunity for Socialists to Lead in Democratization of Italy, by Fabrizio Onofri, 5 pp. ITALIAN, np, Avanti!, 7 Nov 1965, p. 6. JPRS 33204

L'Espresso Discusses Ingrao-CP Polemics, by Antonio Gambino, 7 pp. ITALIAN, np, L'Espresso, Vol XI, No 45, 7 Nov 1965, p. 3. JPRS 33204

Luigi Longo on the Center-Left and Problems of Unity, 5 pp. ITALIAN, per, Rinascita, No 42, 23 Oct 1965, pp. 3-4. JPRS 32931

Structural Reforms and the Transformation of the State, by Achille Occheto, 16 pp. ITALIAN, per, Rinascita, No 44, 6 Nov 1965, pp. 4-7. JPRS 33239 Western Europe Political (Contd)

The Psiup Prepares for Its First National Congress, by Renzo Lapiccirella, 6 pp. ITALIAN, per, Rinascita, No 44, 6 Nov 1965, pp. 9-10.
JPNS 33239

Italian Socialists Debate Effects of Sino-Soviet-American Conflict on International Detente, 5 pp.
ITALIAN, per, Socialismo Democratico, Vol II, No 85, 7 Nov 1965, p. 9.
JPRS 33204

Italian Journal Criticizes Rossanda's Article on Politics and Culture, 6 pp.
ITALIAN, per, Tempi Moderni, No 22, Jul-Sept 1965, pp. 119-125.
JPRS 32931

Norwegian CP Calls for Labor Movement Solidarity to Accomplish Geals, 6 pp. HOMHRGIAH, np, <u>Fribsten</u>, 20 and 22 Nov 1965, p 2. JFRB 33335

Military

Board of Navigation Regulations for Classification of Ships into Various Ice Classes, 14 pp. PINNISH, rpt, Merenkulkuhallituken Maaraykset Alusten Lukemisesta Eri Jaamaksuluokkiin, 13 May 1960. Dept of Navy 4375/ONI Tr 2029

Training Devices for Firing Missles by
Remote Control With Wire, 42 pp.
FRENCH, rpt, Les Appareils D'Entrainement Des
Missiles Teleguides Par Fil, 23 Nov 64,
pp 1-34.
ACSI 1-7864
ID 2204038765

The AHX 30-Ton Tank.
FRENCH, per, Bulletin Arme Blindee Cavalerie,
No 31, 1965, pp 57-67.
*ACSI 1-8569B

Western Europe Military (Contd)

The Battle Tank in a Nuclear War.
FRENCH, per, Bulletin Arme Blindee Cavalerie,
No 31, 1965, pp 68-78.
*ACSI I-8569C

Optical Sighting; Grid Sighting; and 20 mm Antiaircraft Gun Hispano Suiza Type 804, by S. A. Geneve. FRENCH, per, Hispano Suiza (Suisse), 3 pp. ACSI 1-8734 ID 2204059265

20-IM Automatic Cannon, Type 822, Hispano-Suiza.
GERMAN, per, Hispano Suiza (Suisse)
Geneve, No 307.
*ACSI I-9183
ID 2204003766

Use of the Expendable Material
Decontamination Kit, Troop Equipment.
GERMAN, rpt, Verbrauchsmaterial
Dekontaminierung, Satz Truppenausstattung,
1965.
*ACSI I-8404
ID 2214013765

The Atom Bomb - the Unavoidable Weapon. SWEDISH, per, Svenska Dagbladet, 22 Nov 1964. *ACSI I-8771 ID 2204001966

Western Europe Sociological

Hansen: More Action Needed on Socialistic, Democratic Levels of Class Struggle, by Ivan Hansen, 5 pp. DANISH, per, <u>Tiden</u>, Vol 26, No 5, 1965, pp. 182-186. JPRS 33239

Italian Moderate Leftist Quarterly Presents Sociological Analysis of PCI Officials, by G. Bonazzi, 40 pp. ITALIAN, per, Tempi Moderni, No 22, Jul-Sept 1965, pp. 43-76. JPRS 32931

Civil Defense Shelters and Their Utilization, by S. R. Bergelin. SWEDISH, per, <u>Tidsckrift i Militar Halsovard</u>, Vol LXXXVI, 1961, pp 273-280. 9230555 AEC-ORNL-Tr-731

AFRICA

Economic

African Socialism as Viewed by Various African Leaders, 25 pp. FRENCH, np, Afrique Nouvelle, No 950, 21-27 Oct 1965, pp. 1-32. JPRS 33091

Premier Lissouba Discusses the Financial Situation of the Congo since January 1964, 8 pp.
FRENCH, np, Bulletin Quotidien de l'Agence Congolaise d'Information, 29 Oct 1965, pp. 4-8, and 30 Oct 1965, pp. 2-4.
JPRS 33149

Congo-Brazzaville Minister of Finance Discusses Development, by Babackas, 11 pp. FRENCH, per, Bulletin Quotidien de l'Agence Congolaise d'Information, 2 Nov 1965, pp. 7-12; 4 Nov 1965, pp. 2-7.

JPRS 33444

Africa Economic (Contd)

Economic Power in the Newly Independent Countries, by Christian Comeliau, 15 pp. FRENCH, per, Cahiers Economiques et Sociaux, Vol 3, No 1, Mar 1965, pp. 61-74.
JPRS 33529

General Survey of the Rwandan Economy, 7 pp. FRENCH, per, Carrefour d'Afrique, No 47, Aug 1965, pp. 14-17.
JPRS 33678

Algeria Is Making a Notable Effort at Industrialization, 6 pp.
FRENCH, per, Le Commerce du Levant, No 63, 15 Nov 1965, pp. 27-29.
JPRS 33302

The French Foreign Affairs Ministry and Technical Cooperation with Underdeveloped Areas, by Jacques Viot, 13 pp. FRENCH, per, Cooperation Technique, No 38-40, about mid-1965, pp. 5-15.

JPRS 33091

The Role of Cadres in Mali's Development, by Mamadou Gologo, 10 pp. FRENCH, per, L'Essor Hebdomadaire, No 325, 11 Oct 196, pp. 6-9. JPRS 329-2

Over 200 Airports are Now Confided to the Agency for the Security of Air Navigation in Africa and in Madagascar (ASECNA), 18 pp.
FRENCI, rpt, Europe Outremer L'Aviation en Afrique Jun 1965.
DIA IN 230-65 (c)

Air Africa - The Fourth Year, by Cheikh Fal, 10 pp. FRENCH, rpt, Europe Outremer L'Aviation en Afrique, Jun 1965, pp 29-37. DIA LN 230-65 (c)

The Congo in 1964: The Profit and Loss Balance of the Revolution, by P. Schittscatte, 11 pp. PHENCH, np. La Gauche, Vol 9, No 42, 6 Nov 1965, pp. 6-7. JPRS 33391 Africa Economic (Contd)

The Economy of the Liberated Regions of Portuguese Guinea, 8 pp.

FRENCH, up, Horoya, 17 Nov 1965, pp 6, 4; 18 Nov 1965a p 6; 19 Nov 1965, pp 6, 5; and 20 Nov 1965, pp 6,4.

JPRS 33325

Foreign Trade of French-Speaking West African States in 1964, 10 pp.
FRENCH, per, Le Moniteur Africain, No 212, 20 Oct 1965, p. 7.
JPRS 32902

Land and Agrarian Reform in Senegal, by Aboune Badara M'Ebngue, 9 pp. FRENCH, per, Penant, Vol 75, No 707, Jul-Sept 1965, pp. 297-303. JPRS 32902

Tunisian Budget Presented To the Assembly, by Bahi Ladgham, β pp. FRENCH, np, La presse de Tunisie, 24 Nov 1965, p. 2. JPRS 33302

Problems of the Ports of Arzev and Mostaganem in Algeria, 7 pp.

FRENCH, np, La Republique, 25 Nov 1965, p. 12.

JPNS 33639

African and Malgache Postal and Telecommunications Union (UAMPT), No 1. 54 pp. FRENCH, rpt, Published by Department of Transportation Post and Telecommunications of the UAMCE, Oct 1964, Brazzaville, Encl to IR 2-820-0013-65 DIA IN 171-65

Minister of Agriculture Discusses Progress in Zanzibar and Pemba, 7 pp. SWAHILI, np, Kweupe, 6 Nov 1965, pp. 405-407 & 410. JPRS 33444

Africa Political

Senghor's Views on Senegalese-Malian Relations, Socialism and African Unity, by Pres. Leopold Sedar Senghor, 6 pp. FRENCH, np, Dakar-Matin, 11 Dec 1965, pp. 1, 4.
JPRS 33514

The Gaullist Regime and Neocolonialism, by Raymond Barbe, 23 pp. FRENCH, per, Economie et Politique, No 136, Nov 1965, pp. 111-126.
JPRS 33149

Correct Metho's of Explaining Party Policies to the Mas 's, by Mamadou Gologi, 12 pp. FRENCH, per, L'Essor, No 4769, 7 Dec 1965, pp. 1-4.
JPRS 33365

The Communists and the Algerian Situation, 14 pp. FRENCH, per, Est & Ouest, No 349, 16-31 Oct 1965, pp. 5-11.
JPRS 33245

Chinese and Boviet Subversive Activities in Africa, by Brian Crosier, 6 pp.
FRENCH, up, Lumiere, 7 Mov, 1965, p 3; and 14 Nov 1965 issue, p 3. Part One in issue of 31 Oct 1965, and Part Four in issue of 21 Mov 1965.

JPRS 33325

Reserved Attitude Toward Guinean Plot Taken by Most African Capitals, by P. Decraene, 5 pp. FRENCH, np, Le Monde, 28-29 Nov 1965, p. 9. JPRS 33391

Interview with Sherif Belkscem on Revitalization of the FLN, 5 pp.
FRENCH, per. El Moudjahid, 1 Nov 1965, p. 12.
JPRS 33514

Private Interest As a Motive of the Algerian Coup and Consequent Repression, by F. Roussel, 11 pp. FRENCH, per, Le Mouveau Charte, No 3, Nov 1965, pp. 22-25. JPRS 33514

Africa Political (Contd)

Nkrumah's Adviser Discusses African Thought, Islam, and Marxism in Forthcoming Book, by Habib Niang, 11 pp. FRENCH, np, L'Orient, 7 Nov 1965, p. 13. JPRS 33091

The Judicial Organization in Senegal, by Keba M'Baye, 26 pp. FRENCH, rpt, Penant, Vol 75, No 706, Apr-June 1965, pp. 191-222.
JPRS 33391

Resolutions of the "Congress of Martyr Provinces of the East", 10 pp. FRENCH, np, La Presse Africaine, Vol 10, No 477, 11-17 Sept 1965, pp. 3, 3.

JPRS 33245

Former Burundi Official, in Paris, Criticizes Regimes to Date, by G. Bimazubute, 6 pp. FRENCH, per, Remarques Africaines, Vol 7, No 250, 6 Oct 1965, pp. 3-6. JPRS 33052

African National Liberation Movement Leaders Hold Round-Table Meeting in Algiers, 19 pp. FRENCH, per, Revolution et Travail, 19 Nov 1965, pp. 8-11; 26 Nov 1965, pp. 8-10. JPRS 33391

Cooperation of French Foreign Affairs Ministry in Multilateral Training Programs, by Andre Lewin, 7 pp.
FRENCH, per, Revue Juridique et Politique, Vol 19, No 3, Jul-Sept 1965, pp. 457-463.
JPRS 33428

Uganda Leader Favors an East African Federation by Grace Ibingira, 9 pp. GERMAN, per, Afrika Heute, No 19, 15 Oct 1965, pp. 257-262.

JPRS 33149

The Red Chinese in Guinea, by Herbert Reichard, 6 pp.
GERMAN, per, Afrika Heute, No 20, 1 Nov 1965, pp. 276-278.
JPRS 33149

Africa Political (Contd)

The Algiers Afro-Asian Conference Postponed -the Changing Profile of the Third World, by
Giorgio Signorini, 5 pp.
ITALIAN, per, Rinascita, No 44, 6 Nov 1965, p.
12.
JPRS 33052

The Rhodesian Concentration Camps, by Anders Ennmark, 5 pp.
ITALIAN, per, Rinascita, No 47, 27 Nov 1965, pp. 17-18.
JPRS 33302

Military

The African Section of the Union of Air Transport (UAT), 18 pp. FRENCH, rpt, Europe Outremer L'Aviation en Afrique, Jun 1965. DIA IN 230-65 (c)

Role of Malian Army in National Development, 5 pp. FRENCH, per, <u>Le Mali</u>, No 3, Sept 1965, pp. 31-34.

JPRS 33091

The Military Coup D'Etat in Algeria and the Boumedienne Regime, 9 pp. FRENCH, per, Quatrieme Internationale, No 26, Nov 1965, pp. 55-59.
JPRS 33529

Africa Sociological

The Meaning of European Integration for Africa, by Doudou Thiam, 9 pp. FRENCH, per, Afrique-Express, Vol V, No 103, 25 Oct 1965, pp. 12-14.

JPRS 32902

Activities of Congolese Housing Office, 5 pp. FRENCH, per, Bulletin quotidien de l'Agence Congolese d'Information, 9 Nov 1965, pp. 4-8. JPRS 33514

Program for Resettlement of Peasants on Farm Lands in Rwanda, 11 pp. FRENCH, per, Carrefour d'Afrique, No 46, Jul 1965, pp. 10-13; No 47, Aug 1965, pp. 11-13.

JPRS 33639

French-Speaking Sociologists Study Evolution of the Nation in Third-World Countries, by Andre Grandsard, 6 pp.
FRENCH, np, Combat, 5 Nov 1965, p. 4.
JPRS 33514

Myth and Reality of Colonialism as Exemplified by Former Belgian Africa, by A. Doutreloux, 33 pp.

FRENCH, np, La Depeche, 7 Sept 1965, p. 2; 6 Sept 1965, p. 2; 9 Sept 1965, p. 2; 10 Sept 1965, p. 2;13-18 Sept 1965, p. 2; 20-25 Sept 1965, p. 2.

JPRS 33357

Data on Seminar for African Cooperation Held in East Germany, by Sylavin Mavoungou, 6 pp. FRENCH, np, Dipanda, No 97, 16 Oct 1965, pp. 2, 3. JPRS 33091

Muleliam Vis-a-Vis Christianity, 5 pp.
FRENCE, up, L'Etoile du Congo, 30 Oct - 1 Nov 65, p 3, 2 Nov, pp 3-4, 3 Nov, p 3.
JFRS 33325

Malian Rural Development, 10 pp. FRENCH, per, Le Mali, No 3, Sept 1965, pp. 13-18.
JPRS 33091

Africa
Sociological (Contd)

Socio-Occupational Groups in Guinea, by J. Binet, 12 pp. FRENCH, per, Le Monue Non-Chretien, No 74, Apr-June 1965, pp. 67-83
JPRS 33091

Africa, India, and Christianity in the Writings of Raymond Panikkar, by G. Bois, 5 pp. FRENCH, per, Le Monde Non-Chretien, No 74, Apr-June 1965, pp. 102-106.

JPRS 33091

Development Plans of French-Speaking Black African States, 5 pp. FHENCH, per, Le Moniteur Africain, No 215, 10 Nov 1965, p. 7. JPRS 33052

Review of B. Holas, Religious Separatism in Black Africa, by J. Bahoken, 7 pp. FRENCH, per, Presence Africaine, No 55, Third Quarter 1965, pp. 216-22). JPRS 33245

Comeroonese Jurists Condemn Ahijdo Regime, 7 pp.
FRENCH, per, Remarques Africaines, Vol 7, Mo 251, 20 Oct 1965, pp 23-26
JPRS 33334

The National School of Law and Administration of Congo (Leopoldville) Compared with Other Schools of Administration in Africa, by Jean Fourre, 18 pp.
FRENCH, per, Revue Juridique et Politique, Vol 19, No 3, Jul/Bept 1965, pp. 464-478.
JPRS 33444

Cultural Evolution of the Natives in Portuguese Africa, by Goncalves Cotta, 7 pp. PORTUGUESE, per, Mensario Administrativo, Vol 18, No 4-6, Apr/Jun 1964, pp 5-9
JPRS 33334

Psychological Problem of Settlers in Portuguese Overseas Areas, by Gui Grant, 7 pp. PORTUGUESE, por, Hensario Administrativo, Vol 18, No 4-6, Apr-Jun, 1964, pp 31-35 JPRS 33334 Africa Sociological (Contd)

Education in Cape Verde Islands, by Antero de Barros, 18 pp.
PORTUGUESE, per, Ultramar, Vol V, No 18,
Fourth Quarter, 1964, pp. 67-81.
JPRS 33514

Karume Discusses Programs to Aid Zanzibar's Youth and Elderly, 5 pp. SWAHILI, np, Kweupe, No 103, 18 Nov 1965, pp. 417-419.
JPRS 33514

MIDDLE EAST

Economic

The Mass Popular Movement of Athens, by K. Tassopoulou, 7 pp. GREEK, per, Elliniki Aristera, No 27, Oct 1965, pp. 67-71.
JPRS 33382

Political

Israeli Communists Review Role of Party in Resolutions, 18 pp.

ARABIC, np, Al-Ittihad, 10 Dec 1965, pp. 1 & 2, and 17 Dec 1965, p. 2.

JPRS 33711

Official Bulletin of the Syrian Arab Republic. 52 pp. ARABIC, bk, Al Jariydah Ar Rasmiyah Lal Jumhurtyah Al 'Arabiyah As Auriyah ACSI 1-6575 ID 2891020864

Dialogue with the Secretary General of the Socialist Union, by Latry al-Khuly, 10 pp. APABIC, per, al-Tali'ah, Dec 1965, pp. 5-12. JPRS 33606

Middle East Political (Contd)

How Iraqi Communists View Cabinet Reshuffles, 5 pp.
ARABIC, np, Ela-al-Amam, 22 Nov 1965, p. 3.
JPRS 33557

The Demands of the People for a Common Program of Struggle, 8 pp. GREEK, per, Elliniki Aristera, No 27, Oct 1965, pp. 3-7.
JPRS 33382

Resolution of the Ninth Meeting of EDA Executive Committee, 9 pp. GREEK, per, <u>Elliniki Aristera</u>, No 27, Oct 1965, pp. 8-13. JPRS 33382

On the Rights to Meet, Assemble, and Demonstrate by Marching, by Ilias Iliou, 18 pp.

GREEK, per, Elliniki Aristera, No 27, Oct 1965, pp. 49-62.

JPRS 33570

For A Renewal of the Cadres of the Party, by Nikos Karas, 6 pp. GREEK, per, Elliniki Aristera, No 28, Nov 1965, pp. 31-35.
JPRS 33557

Lights and Shadows in Israeli-Russian Relations, by Dov Afel, 7 pp. HERREW, np, Lamerchav, 17 Oct 1965, p. 2. JPRS 33383

What Is It All About? by F. Ertzberg, 20 pp. YIMDISH, np, Frei Yisroel, 14 Oct 1965, pp. 3 and 5.
JPRS 33363

Lines of Disunity and Lines of Unity, by Moshe Sne, 12 pp.
YIDDISH, np, Frei Yisroel, 21 Oct 1965, pp. 1 & 5.
JPRS 33606

The Total Surrender to Arab Nationalism, by F. Hertsberg, 12 pp.
YIDDISH, np, Frei Yisroel, 21 Oct 1965, pp. 2 & 5.
JPRS 33606

Middle East Military

Biological Warfare, 24 pp.
ARABIC, rpt, Inclosure to 2847035464,
(Chemical Class Conducted by the Iraqi
Army) 1964.
ACSI I-7797
ID 2847035464

Conclusion of a Month of Fighting by the People of Greece, by Th. Thalassinos, 9 pp. FRENCH, per, Quatrieme Internationale, No 26, Nov 1965, pp. 25-28.

JPRS 33711

Sociological

Soviet Socialism in Lebanon, by Ernest Teilhac, 9 pp.
FRENCH, per, Le Commerce du Levant, No 63,
15 Nov 1965, pp. 16-19.
JPRS 33485

A. Shlonsky Lectures on Hebrew Literature to the Staff of the Soviet Embassy, 5 pp. HEBREW, np, Al Hamishmar, 6 Dec 1965, pp. 1,3. JPRS 33711

8. Rabinowitz of Novosty Answers Questions about the Jews of the Soviet Union, by Chaim Landau, 5 pp.
HEBREW, np, Al Hamishmar, 17 Dec 1965, p. 1.
JPRS 33711

FAR EAST

Economic

The Success in Technical Reform at the Wu-Han Diesel Engine Manufacturing Plant, 6 pp. CHINESE, per, Chung-Kuo Nung-yeh Chi-hsieh, May 1965, pp. 22-26. JPRS 33603

Massive Advance of Sanitation Work Toward Rural Areas, by Ch'ien Hsin-chung (6929 0207 1813), 15 pp.
CHINESE, per, Hung-ch'i, No 13, ec 1965, pp. 1-9.
JPRS 33699

Make Experiments of Agricultural Science in the Midst of Production, by Liu Keng-ling (0491 2577) and Chieng Ch'ao-yu (3068 2600 0151), 9 pp. CHINESE, per, Hung-ch'i, No 13, 6 Dec 1965, pp. 29-33.

JPRS 33699

Preliminary Research on Agricultural Regions in the Mixed Agro-Pastoral Realm of Kansu and Tsinghai, by Chou Li-san, Wu Ch'uan-chum. (DC-11987) CHINESE, mono, Kaan-ch'ing Nung-mu Chiao-ts'o Ti-chu Nung-yeh Chu Hua Ts'u-pu Yen-chiu, 1958.
*JPRS

The Steel Pipe Water Rump, by Hau Tauliang, 8 pp. CHINGER, per, K'haueh Hua-pao, Jul 1965, pp 239-241.
JPRS 33263

We Should Produce Fine Coke From Local Coal by Wy Hang, 5 pp.
CHIMESE, per, K'o-haush Ta-chung, No 10,
Oct 1965, pp 1-3.
JFBS 33283

Reform of Accounting System in Communes, 5 pp. CHIMMES, per, Hung-ts'un Chin-jung, No 20, 21 Oct 1965, pp. 10-12. JPRS 33488 Far East Economic (Contd)

The Overhauling of Credit Cooperatives, 11 pp. CHINESE, per, Nung-ts'un Chin-jung, No 20, 21 Oct 1965, pp. 13-21.

JPRS 33488

Use "On Contradiction" and "On Practice" To Solve Contradiction between Transport Capability and Amount, 5 pp. CHINESE, per, Shui-yum, No 9, 7 Sept 1965, pp. 8-9.

JPKS 33660

How Are Weather Productions Done? by T'ao Shih-yen, 13 pp CHIESE, per, Ti-li, No 1, Jan 1965, pp. 6-12. JPRS 33305

China's Principal Forest Types, Their Geographical Distribution and Economic Uses, by Hou Hsueh-yu (0186 1331 3558), 26 pp. CHINESE, per, Ti-li, No 4, 27 Jul 1965, pp. 147-153. JPRS 33258

Comprehensive Improvement of Inland Saline Soil on North China Plain, by Shih Yuan-ch'un (4258 0337 2504), 12 pp. CHINESE, per, Ti-li, No 4, 27 July 1965, pp. 154-156.
JPRS 33258

A Study of the Topography of a Desert Region for the Selection of a Railway Route, by Chu Chen-ta (2612 7201 6671) and Li Ping-yuan (2621 3521 0337), 16 pp. CHINESE, per, Ti-li, No 4, 27 July 1965, pp. 166-170.

JPRS 33258

Translations From Ti-li Chi-k'an (Geographical Monographs). (DC-11986) CHINESE, per, Ti-li Chi-k'an, No 5, 1963, pp 1-120.

*JPRS

A Preliminary Study on the Utilization of Rural Labor Power in the Yao-Tsu Rice and Cotton Area, East Chekiang, by Wang Szu-chun (3769 0843 0971), 15 pp. CHIMES, per, Ti-li Hsush-pao, Vol 30, Ho 4, 1964, pp. 331-342.

JPRS 33436

Far East Economic (Contd)

Translations From Ti-li-hsuch Tzu-liao (Memoirs of Geography). (DC-11985) CHINESE, per, Ti-li-hsuch Tzu-liao, No 5, 1959, pp 1-108.
*JPRS

Technical Journal of Soils, CHINESE, per, T'u-jang Chuan-pao, No 29, 1956, pp 1-74. *JPRS/DC-11996

The Motor Industry of Japan, by H. Buschmann.
GERMAN, per, MTZ Motortechnische Zeit, Vol XXIV, No 5, 1963, pp 151-166.
*ACSI I-8764
ID 2204001266

University of Baperki Catalogue for the School Year 1961/1962, 115 pp. by Jajasan Pendidikan, Kebudajaan Baperki, INDONESIAN, rpt, Djakarta DIA LN 147-65

Aidit's Speech to Estate Workers Union, 5 pp. INDONESIAN, np, Harian Rakjat, 27 Sept 1965, p. 1.
JPRS 32914

The Mechanization of North Korean Agriculture, by Sakurai Hiroshi, 35 pp.
JAPANESE, per, Ajia Keizai, Nov 1965, pp. 64-75.
JPRS 33686

20 Years of Basic Construction, 10 pp.
KOREAN, per, Ko'noh'uk kwa Ko'nao'l, Aug 1965,
pp 2-5
JPRS 33324

Timely and Accurate Financial Settlement and Product Distribution in Cooperative Farms, by So Kwan-ni, 5 pp. KORMAN, np, Modong Sinmun, 14 Nov 1965, p. 2. JPRS 33686

Ten Years of Foreign Trade in North Vietnam (1955-1965), by Lau Van Dat, 23 pp. VIETNAMES, per, Eghien Cun Kinh Te, No 29, Oct 1965, pp. 12-22, 41. JPRS 33418 Far East Economic (Contd)

Direction of Development for Transport in the Next Decade, by Nguyen van Bich, 18 pp. VIETNAMESE, per, Nghien Cuu Kinh Te, No 29, Oct 1965, pp. 23-33.
JPRS 33418

Discussion on the Development of the Fishing Branch in the Coming Period, by Nguyen Thai Nam, 8 pp.

VIETNAMESE, per, Nghien Cuu Kinh Te, No 29, Oct 1965, pp. 49-53.

JPRS 33418

Back to the Question of the Perfume Industry, by Lam Queng Thanh, 7 pp. VIETNAMESE, per, Nghien Cuu Kinh Te, No 29, pp. 70-73.
JPRS 33418

Planning the National Economy for the New Situation, by Vu Quoc Tuan, 13 pp. VIETNAMESE, per, Nghien Cuu Quoc Te, No 29, Oct 1965, pp. 34-41.
JPRS 33418

Haiphong Industry Serves Agriculture, by Anh Vu and Vu Hai, 8 pp. VIETNAMESE, np, Nhan Dan, 6 Nov 1965, p. 3. JPRS 33434

Thai Binh Strives to Have Five Tons of Rice per Hectare, by Ngo Duy Dong, 7 pp. VIFINAMENE, np, Nhan Dan, 28 Nov 1965, p. 2. JPRS 33598

Vietnam Electric Branch, by Ho Quy Dien, 6 pp. VIETNAMESE, per, To quoc, Sept 1965, pp. 22-24. JPRS 33269

Finance and Credit in the Democratic Republic of Vietnam, by Viktor Sergeyevich, 127 pp. RUSSIAN, bk, Financy i Kredit Demokraticheskey Respebliki Viyetnam, Noscov, 1965, pp. 1-135

Economic Statistics on North Vietnam for 1964, 9 pp. RUSSIAN, per, <u>Vestnik Statistikí</u>, No 10, pp. 89-95 JPRS 33269

Far East Political

President Hsieh Chueh-Tsai's Report on the Work of the Supreme People's Court To the First Conference of the Third Session of the National People's Congress - 26 December 1964, 5 pp. CHINES, per, Chung-hua Jen-min Kung-ho-kuo Ch'uan-kuo Jen-min Tai-piao Ta-hui Ch'ang-wu Wei-yuan-hui Kung-pao, No 2, 15 Mar 1965, pp. 29-31.

JPRS 33705

Refutation of the New Leaders of the CPSU On "United Action", 24 pp.
CHINESE, per, https://linear.chi.nlm.new.instructure, No 12, 11 Nov 1965, pp 1-17
JPRS 33333

A Living Study and Use of the Thought of Mao Tse-tung, 17 pp.

CHINESE, per, Hung-ch*i, No 12, 11 Nov 1965, pp 18-28

JPRS 33338

Dedicating Everything to the Communist Cause, by Kuan Feng, 7 pp. CHINESE, per, <u>Hung-ch[†]i</u>, No 12, 11 Nov 1965, pp 29-33 JPRS 33338

The Position and Effect of the Law of Sufficient Reason in Formal Logic, by Shao Yu-hsun, 5pp. CHINESE, per, Hung-ch'i, No 12, 11 Nov 1965, pp 37-40

JPRS 33338

Newsletter from Tach'ing, by Sun Wei-shih, 18 pp. CHIMESE, per, Mung-ch'i, No 12, 11 Nov 1965, JPRS 33338

General Table of Contents of Hung Ch'i Numbers 1-13, 1965, 6 pp. CHINGSE, per, Hung Ch'i, No 13, 6 Dec 1965. JPRS 33699

To Ch'ing Oil Field Developed under the Direction of the Thought of Mao Tee-tung, by Min Yu (7036 6276), 10 pp. CHIMESE, per, Hung-ch'i, No 13, 6 Dec 1965, pp. 23-28.

JPRS 33699

Far East Political (Contd)

The Transparent Attack on the Party by the Traitor-Revisionists, by Kojima Tsuruji, 6 pp. JAPANESE, np, Akahata, 9 Nov 1965, p. 5. JPRS 33204

Views of the Japanese CP Organ on Zengakuren Activities, by K (full name not known), 8 pp. JAPANESE, np. Akahata, 12 Dec 1965, p. 3. JPRS 33604

Dr Tanti Aidit Receives Doctorate in North Kores, 5 pp.
INDONESIAN, np, Harian Rakiat, 29 Sep 1965, p 3.
JPRS 33306

Announcements Lasued by 30 September Movement, 7 pp.
INDONESIAN, np, Harian Rakjat, 2 Oct 1965.
JPRS 33287

Japanese CP Proclaims Adherence to Marxist-Leninist Policy, 5 pp. JAPANESE, np, Akahata , 7 Nov 1965. JPRS 33286

North Vietnam As I Sav It Again: The Bridge of Ham Rong in the War, by Yoko Matsucka, 7 pp.

JAPANESS, par, Ekonomisuto, 12 Oct 1965.

JPRS 33592

The Indomitable Unity and Solidarity between the Party and the Masses, by Kim Yang-je, 13 pp. KOFEAN, per, Kulloja, No 20, 20 Oct 1965, pp. 25-32.
JPRS 33574

Strengthening Party Leadership and Socialist Construction, by Kim Yong-goi, 15 pp. KOHMAN, per, Kulloja, No 20, 20 Oct 1965, pp. 33-41.

JPHS 33574

Peoples Political Rights and Power Machinery as a Porcerul and Responsible Political Power Organization for Party Policy Explementation, by Yun Chas-guk, 10 pp. KORIMA, mps, Minju Choson, 8 Oct 1965, pp 3-4. JFRS 32919 Far East Political (Contd)

Firm Ties of Friendship Between Korea and Cambodia, 4 pp. KOREAN, mps, Minji Choson, 12 Oct 1965, p 1. JPRS 32919

The Revolutionary Task of the Korean People Under the Glorious Leadership of Our Party Cannot Pail, 8 pp.
KURBAN, nps, Hodong Sinsum, 10 October 1965, pp 1.
JERS 32919

Party Leadership is the Source of Rower of the Socialist Youth Workers League and the Decisive Guarantee For the Success of all Tasks, by Hong Sum-geon, 11 pp.

KUREAN, mps, Hodong Ch'ongnyon, 9 Oct 1965, Pt yong-yang, pp 2-3.

JPRS 32919

The Deep Feeling of the Soviet People For Us, by Ton quang Phiet, 5 pp.
VIETNAMESE, np, Nhan Dan, 7 Nov 1965, p. 1.
JPRS 33218

Nam-Ha Citizens in Rear Services Activities to Serve Combat, by Senior Tran Chi Cuong, 5 pp. VIETNAMESE, np, Quan doi Nhan dan, No 1646, 14 Oct 1965, p. 2. JPRS 33218

Smash America's Psychological Warfare, by Thu Van, 9 pp. VIETNAMESE, per, Thoi Su Pho Thong, No 20, Oct 1965, pp. 26-34. JPRS 33218

Perfect Command Levels and Strengthen the Organization of the Party Foundations, by S.H.D., 5 pp. VIETNAMESE, np. Thu do Hanoi, No 2161, 8 Oct 1965, p. 4.
JPRS 33218

Far East Military

In the Viet Cong Camp, by Wilfred G. Burchett, 17 pp.
GERMAN, rpt, Konkret, July 1965, pp 18-23
ACS1 I-8566-A
ID 2204057465

In the Viet Cong Camp, by Wilfred G. Burchett, 17 pp. GERMAN, rpt, Konkret, August 1965, pp 20--. ACSI I-8: 36-B
ID 2204057465

The Military Operation in Viet Nam, by Fausto Maria Bartolani, 16 pp. ITALIAN, rpt, 9 Oct 1965, Cairo, Eqypt, DIA IN 261-65 ID 2899016165

The Organizational Rules and Regulations of the 101sc Battalion, 43 p. JAPANESE, per, Dai Hyakuichi Sokuryo Daitai Naibu Soshiki Kisoku, Army Map Service

Tactical and Operational Problems of the Air War in Vietnam, by Czeslaw Goliszewski, 18 pp. POLISH, np, Zolmierz Wolnosci, 18-19 Dec 1965.

JPRS 33692

Shooting U.S. Aircraft with Infantry Weapons, by T. B., 6 pp.
VIETNAMESE, np, Khoa Hoe Thuong Thuc, Nos.
186 and 187, Aug 15 and 25, 1965, pp. 1 and 4, and 2, resp.
JPRS 33218

Correct Errors in Shooting U. S. Airplanes, by T. M., 10 pp. VIETNAMESE, np, Khoa Hoc Thuong Thuc, Nos. 190-193, 25 Sept, 5, 15 and 25 Oct 1965, JPRS 33218

People's Armed Security Force Post 99, by Mai Thanh, 7 pp. VIETNAMESE, np, Quan doi Nhan dan, No 1644, 12 Oct 1965, r. 3. JPRS 33218

Far East Sociological

Study History for Revolution, by Cn'i Penyu (2058 2609 4416), 13 pp. CHINERE, per, Hung-ch'i, No 13, 6 Dec 1965, pp. 14-22.
JPRS 33699

The Work-Study System of Education, 10 pp. CHINESE, per, Hung Ch'1, No 13, 6 Dec 1965, pp. 34-40.
JPRS 33699

Prof. Dr. Prijono Criticizes Indonesian Students in the People's Republic of China, 8 pp. INDONESIAN, np, Harian Rakjat Minggu, 26 Sept 1965, pp. 1-2. JPRS 32914

Southeast Asia Research Institute: Southeast Asia Fact Book (1965), Tokyo, 1965, 179 pp.
JAPENESE, rpt, Tonan Ajia Yoran 1965,
Nenham Tokyo, Japan.
ACSI I-7846
ID 2204036865

For a New Advance of Revolutionary Literature and Art, by Om Ho-sok, 11 pp. KOREAN, per, Kulloja, No 20, 20 Oct 1965, pp. 42-48.
JPRS 33574

The Housekeeping of the mation and the Class Consciousness of the Workers, by Chong Talgun and Ch'oe Ch'il-nam, 6 pp.
KORSAN, np, Nodong Sinmun, 21 Nov 1965, p. 2-JPRS 33574

The Primary Importance of Ideological Work in the Movement for Improvement of Cooperative Management and Techniques, by To Huu, 19 pp. VIETNAMES, per, Tuyen Huan, Nov 1965, pp. 9-16.
JPRS 33597

LATIN AMERICA

Economic

Plans and Accomplishments in Cuban Energy Development during the Revolution, by Fernando Martinans, 7 pp. SPANISH, per, <u>Cuba Comercio Exterior</u>, Mar-June 1965, pp. 28-35. JPRS 33708

Cuban Economic Development Policy, by Carlos Romeo, 19 pp.

SPANISH, per, Cuba Socialista, Dec 1965, pp. 2-24.

JPRS 33708

The State Fishing Enterprise, by Vicente Bucillas, 5 pp. SPANISH, per, Mar y Pesca, No 1, Oct 1965, pp. 6-12.
JPRS 33723

The Cuban Lobster: Important Source of Foreign Exchange, by Vicente Cubillas, 5 pp. SPANISH, per, Mar y Pesca, No 2, Nov 1965, pp. 6-12.

JPRS 33723

Report on Cuban Economy, 31 pp. SPANISH, per, Panorama Economico Latino-americano, 1965, Vol 11, No 142, pp. 17-20; No 143, pp. 4-8; Vol 12, No 144, pp. 18-20; Vol 12, No 145, pp. 11-13; Vol 12, No 147, pp. 10-14.

JPRS 33466

Latin America Political

Italian Socialist Organ Analyzes CHE Guevara's Disappearance from Cuban Political Scene, by Adolfo Gilly, 6 pp. ITALIAN, per, Mondo Nuovo, Vol 7, No 43, 31 October 1965, p. 12. JPRS 33547

Some Problems of Revolutionary Strategy, by Regis Debray, 33 pp. SPANISH, per, <u>Bohemia</u>, 19 Nov 1965, pp. 4-9, 88-90; 26 Nov 1965, pp. 4-10. JPRS 33468

The Organization of the Communist Party of Venezuela, 6 pp. SPANISH, per, Confidencial, No 19, 5 May 1965, 4 pp. JPRS 33409

Resolutions of the Seventh Plenum of the Central Committee of the Communist Party of Venezuela, 8 pp.

SPANISH, per, Confidencial, No 24, 30 Jun 1965, 4 pages.

JPRS 33409

Outline for the Report of the Resolutions of the Seventh Plenum of the Central Committee of the Venezuelan Communist Party, 23 pp.

SPANISH, per, Confidencial, No 26, 29 Jul 1965, pp. 3-17.

JPRS 33409

Chilean Conservative Daily Discusses Communism against the Church, by Juan Antonio Widow, 6 pp.

SPANISH, np, El Diario Ilustrado, 16, 17 & 19
Nov 1965, p. 4.

JPRS 33239

Anti-Communist Spanish Journal Reports on Communism in Ecuador, 9 pp. SPANISH, np, Este & Oeste, 1-15 Nov 1965, pp. 9-14.
JPRS 33547

Effective Party Work in Las Villas, 5 pp. SPANISH, np, Granma, 1 Nov 1965, p. 2. JPRS 33564

Latin America Political (Contd)

Balancing Assemblies of Work and Mandate Renovation in Municipal and Sectional Committees of PC Completed in Camaguey, by Rolando Ramirez, Lucas Cortada Fuentes, Victor Manuel Zamora, Jose Acosta Martinez and Amelia Gonzalez, 5 pp. SPANISH, np, Granma, 2 Nov 1965, p. 2. JPRS 33564

Argentine CP Organ Evaluates Relation of Sixth Congress and World Situation, 9 pp. SPANISH, per, Nuestra Palabra, No 803 and 804, 17 Nov 1965, p. 6; 24 Nov 1965, p. 6. JPRS 33481

Resolution of the CC of the Ecuador CP Against Dictatorship and Imperialism and for a Democratic People's Government, 41 pp. SPANISH, up, El Pueblo, No 467, 22 Oct 1965, pp 1-18.

JTRS 33335

Self-Critical Analysis of the Ecuadorian Communist Party by its Central Committee, 23 pp SPANISH, mp, El Pueblo, No 468, 29 Oct 1965, Ep 1-11.
JPRS 33335

Organization Directives for the Ecuadorian Communist Party Promulgated by the Central Committee, 5 pp.

8PANIEH, up, El Pueblo, No 469, 5 Nov, 1965, pp 1-3
JPES 33335

Departure of the Ambassador of the People's Republic of Vietnam, 8 pp. SPANISH, up, La Tarde, 16 Oct 1965, p 2. JPRS 33350

The Bolivian Communist Party Denounces the Military Dictatorship and Calls for a Government of the People, 12 pp. SPANISH, np, Unidad, 31 Oct 1965, pp. 10, 11, 12.

JPRS 33204

Latin America Political (Contd)

Argentine Trotskyite Publication Comments on Effects of Guevara's Expulsion from Cuba, by J. Posadas, 24 pp. SPANISH, np, Voz Proletaria, 27 Oct 1965, pp. 3, 4, 9 and 10.

JPRS 33204

Struggle for Revolutionary Program Important Task of Italian Proletariat Says Argentine Trotskyite Organ, by J. Posadas, 24 pp. SPANISH, np, Voz Proletaria, Vol 18, No 417, 24 Nov 1965, pp. 3-8.

JPRS 33547

Military

The Revolutionary Armed Forces and the Cuban School, by Gaspar Jorge Garcia Gallo, 7 pp. SPANISH, per, Verde Olivo, No 46, 21 Nov 1965, pp. 4-7.
JPRS 33466

Revolutionary Vigilance: The Duty of All Revolutionaries, 8 pp. SPANISH, per, Verde Olivo, No 46, 21 Nov 1965, pp. 13-18.

JPRS 33466

Latin America Sociological

Information Bulletin of the Central American Defense Council, 73pp. SPANISH, rpt, Guatemala, Apr 1965, DIA IN 238-65 ID 2841008365

Cienfuegos: Cuba's Foremost Revolutionary City, by Vicente Cubillas, 12 pp. SPANISH, np, Bohemia, 3 Sept 1965, pp. 31-39. JPRS 33063

The New Lenin Hospital in Holguin, by Ruben Castillo Ramos, 5 pp. SPANISH, per, Bohemia, Vol LVII, No 45, 5 Nov 1965, pp. 31-39.
JPRS 33548

The Abakua Secret Society, by Rogelio Martinez Fure, 8 pp. SPANISH, per, <u>Cuba</u>, Sept 1965, pp. 39-45. JPRS 33429

Yankees, Get out of the Dominican Republic SPANISH, per, <u>FAR</u>, No 2, 15 May 1965 pp 1-14.
ACSI-1-8706
2204057865

SCIENTIFIC

Aerospace

Coordination of Man's Voluntary Movements Under Space Flight Conditions, by L. V. Chkhaidze. RUSSIAN rpt, Moscow 1965. NASA TT F-355

Aviation Handbook (For the Pilot and Navigator), 367 pp.
RUSSIAN, bk, Aviatsionnyy Spravochnik
(Dlya Letchika i Shturmana), Moscow,
1964, pp 1-415. 9698998-V
FTD-MT-64-273

The First Three Soviet Space Rockets,, 165 pp. RUSSIAN, bk, Besprimernyy nauchnyy podvig, 1959, pp. 5-202.
JPRS 33234

Manufacture of Basic Components and Assemblies of Aircraft Engines, by M. I. Yevstigneyev, I. A. Morozov, 517 pp. RUSSIAN, bk, Izgotovleniye Osnovnykh Detaley i Uzlov Aviadvigateley, Moscow, 1964, pp 1-456. 9698906-V FTD-MT-65-57

Design of Flying Craft, by V. L. Bel'skiy, I. P. Vlasov. RUSSIAN, bk, Konstruktsiya Letatel'nykh Apparatov, 1963, pp 1-84; 114-123; 387-444. *FTD-TT-65-1573

Education of a Rocket Staff, by M. Lovkov. RUSSIAN, nsp, <u>Krasnaya Zvezda</u>, 26 Jun 1965, p 3. *FTD-TT-65-1986

Measurements of Low Energy Particle
Fluxes on Satellites "Cosmos" and
"Electron" by S. N. Vernov, et al.
RUSSIAN, rpt, Paper presented at the COSPAR
5rh Space Science Symposium, Buenos
Aires, May 1965.
NASA TT F-9683

Pioneers of Rocket Technology: Selected Works, by T. M. Mel'kumov.

RUSSIAN, rpt, Pionery Raketnoy Tekhniki - Kibal'chich, Tsiolkovskiy, Tsander, Kondratyuk - Izbrannyye Trudy, 1964, pp 1-20; pp 501-669. 9230059-V

NASA TT F-9285

Scientific Aerospace (Contd)

Problems of Radiation Safety in Space Flights; Physical and Biological Studies With High-energ Protons, by Yu. G. Nefedov. RUSSIAN, bk, Problemy Faciatsionnoy Bezopasnosti Kosmicheskikh Poletov; Fizicheskiye I Biologicheskiye Issledovaniya s Protonami Bol'shikh Energiy, Moscow, 1964 9230028-V NASA TT F-353

Collected Works of K. E. Tsiolkovskiy,
Vol II-Reactive Flying Machines, by
A. A. Blagonravov.
RUSSIAN, rpt, K. E. Tsiolkovskiy. Sobraniye
Sochineniy, Vol II, Reaktivnyye Letatel'nyye
Apparaty, 1954.
NASA TT F-237

Certain Results of Observations Taken
During the Space Flight of The Voskhod,
by K. Feoktistov, et al.
SPANISH, rpt, Paper Presented at the
Eighth Plenary Meeting and Sixth International
Space Science Symposium, COSPAR,
10-21 May 1965, Buenos Aires.
NASA TT F-9551

The Measurement of Air Temperature in Flight, by S. I. Nepommyashchiy, 28 p. RUSSIAN, per, Trudy Nauchno-Issledovatel*skiy Institut Gidrometeorologicheskogo Priborostroyeniya, No 11, 1963, pp 76-95.

ACSI I-8592
ID 22040533 65

Developments of the Powerful New Rocket-Space System with the "Proton" Scientific Station, by Prof G. V. Petrovich, 11 pp. RUSSIAN, per, Vestnik Akademii Nauk SSSR, No 9, Sep 1965, pp 24-31 JPRS 33345

A Method For Modelling The Profiles Of Wings And Propellers, by G. A. Kyazanov, V. V. Kopeyetskiy. RUSSIAN, per, Patent No 168459, pp 1. *FTC-TT-65-1936

Experimental Rockets, by I. Chudej, M. Kladensky. CZECH, per, Letecky Obzor, No 11, 1964, pp 335. ACSI I-8589 ID 2204053065 Scientific Aerospace (Contd)

The Coordination of French Air Transports in French-Speaking Black Africa and Madagascar, 18 pp. FRENCH, rpt, Europe Outremer L'Aviation en Afrique, Jun 1965.

DIA IN 230-65 (c)

Hyperlift and Balancing of Slender Wings, by Ph. Poisson-Quinton, E. Erlich. FRENCH, rpt, O.N.E.R.A. Paper Presented at the Colloque d'Aerodynamique Applique, Association Française des Ingenieurs et Techniciens de l'Aeronautique et de l'Espace, Paris, 12-13 November 1964.

Basic Operating Limits on Communication Links With Spacecraft, by J. Peters. GERMAN, rpt, Deutsche Gesellschaft für Raketentechnik und Raumfahrtforschung. Apr 8, 1965 NASA TT F-9560

Rocket Flight Engineering, by E. Sanger GERMAN, rpt, Verlag von R. Oldenbourg, Manich, Berlin, 1933.

NASA TT F-223

Rendezvous Problem of Space Vehicle With OrbitalStation, by Markov, G. Yu. F. A. Mikhaylov. NORWEGIAN, rpt, Paper Presented at the International Federation of Automatic Control, Stavanger, Norway, June 21-25, 1965. NASA TT F-9638

Agriculture

A Symposium on the Forrest Tundra, by Ye. V. Dorogostayskaya, I. V. Ignatenko, 6 p. RUSSIAN, per, Izvestiya Vsesoyuznogo Geograficheskogo Olishchestva, No 5, 1964.

ACSI 1-7972
ID 22040435 65

Scientific Agriculture (Contd)

Application of Soya and Pea Flour in the Fermant Method for Improving Wheat Bread Quality, by L. Ya. Auerman, et al, 5 p. RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy-Pishchevaya Tekhnologiya, No 4(47), 1965, pp 52-56.
*ACSI I-9192
ID 22040046 66

Rational Technological Process of Obtaining Essential Oil from Badyan Fruits-Research And Methodology, By A. F. Polyakov, 6 p. RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy-Pishchevaya Tekhnologiya, No 4(47), 1965, pp 68-73.
*ACSI I-9178
ID 22040032 66

Articles on Major Official Materials Concerning the Problems of Food Hygiene, by M. G. Shevchenko. 18 pp.
RUSSIAN, bk, Sbornik Vazhneyshikh Ofitsial'-nykh Materialov Po voprosam Gigiyeny Pitaniya, Moscow, 1963.
ACSI 1-7881
ID 2204040465

The Development and Composition of Manpower in Agriculture, by Minko Minkov, 12 pp. BUIGARIAN, per, Trud i tseni, No 3, Mar 1965, pp. 1-11.
JPRS 33385

The Biological Cycle of Nitrogen and Ash Elements in Forest Plantation, by
N. P. Remezov, K. M. Bykova, et al.28 p.
RUSSIAN, per, Trudy Instituta Lesa Akademiya
Nauk SSSR, Vol 24, 1955, pp 167-194.
*CFSTI TT 66-51125

An Inspection Report on the Mechanization of Our Agriculture, by Hsiang Nan (7309 0589), 15 pp. CHINERN, per, Chung-kuo Nung-yeh Chi-hsieh, May 1965, pp. 11-20.

JPRS 33691

Several Semi-Mechanized Farm Machines of Hupeh Province, 8 pp. CHINESE, per, Nung-yeh Chi-hsieh Chi-shu, No 7, Jul 1965, pp. 24-25. JPRS 33457 Scientific Agriculture (Contd)

A Preliminary Study on the Compilation of County Agricultural Maps-With the Work in Chungshan Hsien, Kwangtung, As an Example, by Miao Hung-chi (4924 7703 1015), Ch'en Hua-ts'ai (7115 5478 2624), Huang Kuang-yao (7806 1684 5069), Wen Ch'ang-en (3306 7022 1869), Lin Hung-hsiung (2651 7703 7160), Ting Yen-ching (0002 1693 2529), T'an Te-lung (6223 1795 7127), 20 pp. CHINESE, per, Ti-li Hsueh-pao, Vol 30, No 4, Dec 1964, pp. 3444-357.

Quantity and Quality of Water for Agriculture, by Michal Antonic Ladislav Cervenka, 138 pp. CZECH, rpt, Bratislava, 1963, pp 168-300. DIA LN 88-65 ID 22180614-65

Use of Testing Equipment in Connection With Problems of Freeze Drying of Food, by G. Kallistratos, 20 pp.
GERMAN, rpt, Anweddung von Versuchsanlagen im Zusammenhang Mit Problemen der Gefriertrocknung von Lebensmitteln, 1965.
ACSI 1-8403
ID 28340167-65

The Basis for the Industrial Use of
Freeze-Drying for Preservation of Fruit
and Vegetables, by G. Kallistratos, 11 pp.
GERMAN, rpt, Grundlagen fur die Industrielle
Verwendung der Gefriertrocknung zur,
Konservierung von obst und Gemuse, 1965.
ACSI I-8402
ID 2834015565

Light Framework Consisting of Partially openable Self-supporting Elements for cultivated Flower Covers, 5 p.
ITALIAN, pat, Patent No 589,326.
Dept of Commerce
Patent Office

Scientific
Biological & Medical Sciences

Pharmacology of the Coronary Circulation by V. N. Kaverina, RUSSIAN, 1963, Moscow. NASA TT F-336

Effects of Ionizing Radiation and of Dynamic Factors on the Functions of the Central Nervous System - Problems of Space Physiology, by N. N. Livshits. RUSSIAN, rpt, Moscow, 1964. NASA TT F-354

Anatomy, Biology of Reproduction and Physiology of Nutrition of Cattle, by N.M. Burlakov, D.I. Startsev. 315 pp. RUSSIAN, bk, Anatomiya, Biologiya Razmnozheniya i Fiziologiya Pitaniya Krupnogo Rogatogo Skota, Vol 2, 1961.

Results of Scientific Research in Fharmacy for 1964, by P. L. Senov, 15 pp. RUSSIAN, per, Aptechnoye Delo, Vol. XIV, No 5, Sept-Oct 1965, pp. 3-12. JPRS 33680

Monograms for Determining the Height-Weight-Circumference Relation in Human Subjects, by D. A. Zhdanov, 14 pp.

HUSSIAN, per, Arkhiv anatomii gistologii i embriologii, No 10, Oct 1965, pp. 33-42.

JPRS 33694

Ascaridata of Animals and Man and Diseases Caused by Them. Part I, by A. A. Mozogovoi. 351 pp.
RUSSIAN, bk. Askaridaty Zhivotnykh i Cheloveka i Vyzyvaemye imi Zabolevaniya.
Kniga 1. 1953.
*CFSTI TT 66-51141

Role of Electromagnetic Fields in Living Processes, by A. S. Pressman, 6 p. RUSSIAN, per, Biofiziku, No 1, 1964, pp 131-134, ACSI I-7830 ID 22040588 65

On the Changes of Physico-Chemical and Biological Properties of Saliva in Pilots During Sea-Sickness, by V. V. Efimov.
RUSSIAN, per, Byul Eksperim Biol i Medit,
Vol XIII, No 5, 6, 1942, pp 44-47.
*FTD-TT-65-1645

Increase in the Extensor Tonks in Cats With Fully and Partially Excised Cerebellium During Weightlessness, by O. G. Gazenko, R. A. Grigor'yan, 12 pp. RUSSIAN, per, Byull Eksperimental Biologii i Meditsiny, Vol LX, No 7, 1965, pp 7-12. 9698770 FTD-TT-65-1554

A Band Hybrid Coupline, by L. G. Maloratskiy. RUSSIAN per, Byull Izobret i
Tovarnykh Znakov, No 22, 1964, pp 31-32.
*ACSI 1-8623
ID 2204056465

Expension of A. N. Krylov's Method to Polynomial Matrices, by I. S. Arzhanykh, 4 p. RUSSIAN, per, Doklady Akademii Nauk, SSSR, No 5, 1951, pp 749-752. 9698548

DDC RSIC-447

The Mechanism and Bnzymes of Acetyl Phosphate Formation in the Course of Conversion of Citric Acid in Animal Tissues, by M. F. Gulyy, T. N. Pechenova, et al.

RUSSIAN, per, Dck Ak Nauk SSSR, No 6, Vol CLIX, 1964, pp 1415-1418, 9230484

UCRL Tr 1252(L)

Pharmacology of the New Alkaloid Loline and its Derivative, by V. A. Karimov, I. K. Kamilov. 5 p. RUSSIAN, per, Doklady Akademii Nauk Uzbekskoi SSR, No 12, 1961, pp 43-47. *CFSTI TT 66-51137

Restoration of Contractility and Prospects for Transplantation of Human and Animal Hearts, by S. V. Andreyev. RUSSIAN, per, Eksperimental naya Khirurgiya, Vol 8, No 4, 1964, pp 32-36. 9229868 NASA TT F-404 Scientific

Biological & Medical Sciences (Contd)

Methodological Aspect of the Hybridization Theory, by V. P. Dobrokhvalov and N. V. Tsitsin, 11 pp. RIBBIAN, per, Filosofskiya Nauki, No 5, 1965, pp. 79-87.
JPRB 33214

Conditioned Reflexes to Taste Stimula in Children of the First Months of Life, by T. P. Nemanova.
RUSSIAN, per, Fiziologicheskiy Zhurnal SSSR, No 30, 1941.
*FTD-TT-65-1995

On Bilateral Activity of the Parotid Salivary Glands in Man, A. I. Vasilyev. RUSSIAN, per, Fiziologicheskiy Zhurnal SSSR, No 45, 1959. *FTD-TT-65-1996

Durmal Rhythm of Functions in Humans During Restricted Mobility, by N. E. Panferova, 9 p. RUSSIAN, per, Fiziologicheskiy Zhumal SSSR, Vol L, 1963, pp 741-749.
*FTD-TT-65-1994

Peculiarities of Gas Exchange Studies under Rarefied Atmospheric Conditions, by N. A. Agadzhanyan and I. R. Kalinichenko, 8 pp. RUSSIAN, per, Fiziologicheskiy Zhurnal SSSR imeni I. M. Sechenova, Vol 51, No 7, Jul 1965, pp. 793-798. JPRS 33057

Influence of Different Grades of Hypoxia on Sensitivity to Epileptogenic Agents and on Certain Functional Properties of Motor Formations of the Brain, by S. A. Dolina, 10 pp. RUBSIAN, per, Fiziologicheskiy Zhurnal SSSR imeni I. M. Sechenova, Vol 51, No 7, Jul 1965, pp. 799-805.

JPRS 33056

Change in Oxygen Pressure in the Heart
Muscle during Ascent and Acceleration,
by Ye. A. Kovalenko and V. I. Korol'kov,
12 pp.
RUSSIAN, per, Fisiologicheskiy Zhurnal imeni
I. M. Sechenova, Vol 51, No 8, Aug 1965,
pp. 966-973.
JPRS 33066

Physiology, Medicine, and Technical Progress, by Ye. B. Babskiy and V. V. Parin, 101 pp. RUSSIAN, bk, Fiziologiya, Meditsina i Tekhnicheskiy Progress, 1965, pp. 3-139. JPRS 33246

Biosynthesis of Vitamin B12 in Methane Fermentation, by L. G. Maslova. RUSSIAN, per, Food Technology, Moscow, No 4(47), 1965, pp 79-81.
*ACSI I-8747
ID 2204060665

Occupational Hygiene in the Painting of Manufactured Articles with Synthetic Lacquers and Paints, by I. F. Zapalkevich, 17 pp. HUSSIAN, pamphlet, Gigiyena Truda Pri Okraske Izdeliy Sinteticheskimi Lakokrasochnymi Materialami, 1965, pp. 3-20. JPRS 33067

The Diet of Bream Fry in the And Sea at Early Developmental Stages, by M. Ya. Vetysheva, 12 pp.
RUSSIAN, per, Izvestiya Akademii Nauk Kazakhskoy SSR, Seriya Biologicheskikh Nauk, No 5, 1965, pp. 64-71.
JPRS 33693

Losses to Science --- Yu. V. Filippov, 2 p. RUSSIAN, per, Izvestiya Akademii Nauk SSSR, Seriya Geograficheskaya, No 3, 1965. ACSI 1-7843D ID 22040372 65

Emulsifying Properties of Blood Albumin and its Application in Food Emulsion Production, N. I. Kozin, et al, 3 p. RiSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy-Pishchevaya Tekhnologiya, No 4(47), 1965, pp 76-78.

*ACSI I-9187
ID 22040043 66

Method of Determining the Propagation Velocity of Pulse Waves, by V. P. Medvedev. RUSSIAN, per, <u>Kardiologiya</u>, Vol 4, No 1, 1964, pp 79-82. 9229862 NASA TT F-407 Scientific

Biological & Medical Sciences (Contd)

Cybernetics in Clinical Medicine, by A. S. Cheyshvili, 83 pp.
RUSSIAN, bk, Kibernetika v Klinicheskov Meditsine, 1964, pp. 1-92.
JPRS 33477

1

The Protection of the Population mder Conditions of Chemical, Bacteriological and Radiological Warfare, by Georgii Fedorovich Baratov. RUSSIAN, bk, Kievakoe Oblastnoe Knizhno-Gazetnoe Izdatel stvo, 1963, pp 3-13; 369-387, 9228039 AEC-ORNL-Tr-243

Oxygen Utilization by the Organism and Its Regulation, by N. A. dzhanyan, T. A. Allik.
RUSSIAN, bk, Kislorodny, Rezhi
Organizma i Yego Regulirovaniye, 1965,
315 pp.
*NASA

Complex Therapy of Acute Radia on Sickne's, by Ye. Ye. Chebotarev, 90 pp.
RUSSIAN, bk, Kompleksnoye Lecheni' Ostroy
Luchevoy Bolezni, 1965, 20 pp.
JPRS 33552

Study of the Zones of Nature (Selected Works), by V. V. Dokuchaev, 13 pp. RUSSIAN, bk Kucheniyu o Zonakh Prirody (Izbrannyye Sochineniya) Noskva, Vol 3, 1941, pp 317-329. *CFSTI TT 66-51119

The Manufacture of Vitamins in Jaran, by G. S. Verkhovsk-va and A. A. Zoostag, 7 pp. RUSSIAE, per, Meditsinskapa Promyshlesmost¹, Vol XIX, No 8, Aug 1965, pp 49-53. JPRS 32,907

Methodical Problems of Contemporary Medicine, by G. I. Tsaregorodtsev, RUSSIAN, bk, Metodologicheskiye Problemy Sovremennoy Meditsiny, 1965, 280 pp.

*JPRS/NY-13066

The Individual Sensitivity of Dogs to Radiation, by N. A. Velokhova, 6 p.
RUSSIAN, per, ieditsinskaya Radiologiya, Vel IX, No 11, 1964, pp 40-45.
*FTD-TT-65-1997

Mathematical Models in Medicine, by N. M. Amosov, 6 pp.
HISSIAN, per, Nauka i Tekhnika, No 10,
Oct 1965, pp. 2-4.
JPRS 33407

Evolution and Human Health; Molecular Diseases, by Yu. Kremer, 7 pp. RUSSIAN, per, Nauka i Tekhnika, No 10, Oct 1965, pp. 5-7.
JPRS 33408

Soviet Scientists Have Successfully Reconstructed Protein from Bacteriophage, by V. Azernikov, 4 p. RUSSIAN, per, Nauka i Zhizn', June 6, 1965. ACSI I-8579
ID 220405 20 65

(Nut) Kernels of Standing Siberian Pines, by M. Ignatenko. RUSSIAN, per, Nauka i Zhizn, No 6, 1965, p 10. *ACSI I-3602 ID 2204054365

The Third Digestion, 5 pp.
RUSSIAN, per, Nauka i Zhizn; No 6, 1964,
pp 26-28.
ACSI I-8605
ID 22040546 65

Studies in Reactivity of the Cardiovascular System, by S. V. Andreyev and Yu. S. Chechulin, 19 pp.
RUSSIAN, bk, Ocherki po reaktivnosty serdechnososudistoy sistemy, 1965, pp. 329-346 and 370-372.
JPHS 33717

Problems of Psychiatric Guardianship, 11 pp RUSSIAN, bk, <u>Organisatsiya Psikhiatricheskogo</u> Patronasha i Perspektivy yego Rasvitiya v SUSR JPRS 33,286

Diet Therapy in Nephropathy Concomitant wa... Bile Duct Diseases in Children, by B. M. Zeliger, 7 pp. RUSSIAN, per, <u>Pediatriya</u>, Vol XLIV, No 9, Sept 1965, pp. 49-52. JPRS 33074 Scientific

Biological & Medical Sciences (Contd)

Physiological Effects of Gravitation, by O. G. Gazenko, A. A. Gurjian, 27 pp. RUSSIAN, rpt, 8-oye Plenamoye Sobraniye i 6-oy Mezhdunarodnyy Simpozium po Kosmicheskim Naukam, 1965. 9698287 FTD-MT-65-223

Prevention of Food Poisoning, by Z. A. Ignatovich, 29 pp.
RUSSIAN, rpt. Preduprezhdeniye Pishchevykh
Otravleniy, 1965, pp. 1-36.
JPRS 33721

Food and Nedical Qualities of the Bulgarian Pepper, 1 p. RUSSIAN, per, Priroda, No 8, 1965, pp 119-120. ACSI 1-8742 ID 22040601 65

Frequency of Useful Mutations. RUSSIAN, per, Priroda, Moscow, No 8, 1965, pp 120-121. *ACSI I-8743 ID 2204060265

The Problem of Food Synthesis, by A. N. Nesmeyanov, 11 p. RUSSIAN, per, Priroda, No 9, Sept 1965, pp 12-23. *ACSI I-8768
ID 22040016 66

Nagmetobiology, by Yu. A. Kholodov, 20 pp. RUSSIAN, per, <u>Priroda</u>, No 10, pp 12-21. JPRS 33,321

The Role of Eye Movements in the Visual Proces s, by A. L. Yarbus. RUSSIA bk, Rol' dvizhenii glaz v Protsesse Freniya

Cattle Husbandry - The Breeding and Breeds of Cattle, by N.M. Burlakov, D.I.Startsev. 424pp.
RUSSIAN, bk, Skotovodstvo-Krupnyi Rogatyi Skot, Vol 1, 1961.
*CFSTI TT 66-51142/1

The Nature and Localization of Chromospheric Flares, by Yu. M. Slonim. RUSSIAN, per, Solnechnyye Dannyye, No 4, 1963, pp 67-77. NASA TT F-250

Current State of the Problem And Teck-borne Encephalitis, by S. P. Karpov, 7 p. RUSSIAN, per, Sovetskaya Meditsina, Vol XXVI, No 4, 1963, pp 41-47.

*ACSI I-8762
ID 22040010 66

Exanthematous Typhus and Brill's Disease, by P. F. Zdrodovskiy. RUSSIAN, mono, Sypnoy Tif I Bolezn' Brillya, 1965, pp 3-205. *ACSI I-8711 ID 2204058065

Hypnopedia, Its Limits and Possibilities, Truth and Fiction Surrounding It, 9 pp. RUSSIAN, per, Tekhnika -- Molodezhi, No 11, Nov 1965, pp. 26-28. JPRS 33531

The Soviet Woman and Physical Culture, 9 pp RUSSIAN, per, Teoriya i Prakita Fisicheskoy Kul*tury, No 3, March 1963, pp 1-6.

JPRS 32,922

Function of External Respiration during Circulatroy Insufficiency, by N. S. Molchanov and V. V. Medvedev, 7 pp. RUSSIAN, per, Terapevticheskiy Arkhiv, Vol XXXVII, No 8, 1965, pp. 3-8.
JPRS 32920

The Effect of Microwaves on Living Organisms and Biological Structures, by A. S. Presmen, 59 pp. RUSSIAN, per, <u>Uspekhi Fizicheskikh Nauk</u>, Vol XXCVI, Ro 2, Jun 1965, pp. 263-302.
JPRS 33054

The Use of Interference Currents in the Combined Exclusion of Pain in Surgical Operations, by N. I. Kuzin, et al. RUSSIAN, rpt, USSR Academy of Medical Sciences. NASA TT F-9546

Improving the Process Used in Producing Foot-and-Mouth Disease Vaccine, by L. N. Rublev, 12 pp.
RUBBIAN, per, Vestnik sel'skokhozyaystvannoy nauki, Vol 8, No 7, Jul 1965, pp. 73-81.
JPNE 33568.

Scientific

<u>Biological & Medical Sciences (Contd)</u>

Deslating of Water by the Crystal Hydrate Method, by G. D. Pavlov, 10 pp. RUSSIAN, per, Vodosnabzheniye i Senitarnaya Tekhnika, No 10, 1965, pp. 26-29.

JPRS 33437

Technology and the Brain, by G. L. Smolyan, 17 pp.
RUSSIAN, per, Voprosy Filosofii, Vol XIX,
No 5, 1965, pp. 83-94.
JPRS 33516

A Biology of Activity: The Role of Cybernetics in Biology, by N. A. Bernshteyn, 29 pp.
RUSSIAN, per, Voprosy Filosofii, No 10, 1965, pp. 65-78,
JPRS 33518

Concerning Hygenic Study of Enzyme Preparations Produced from Microfungi and Their Pessible Use in the Food Industry, 6 p. RUSSIAN, per, Voprosy Pitaniya Moscow, April 1965, pp 9-13. ACSI I-8424 ID 22040483 65

Features of the Control of Spaceship Systems by the Human Operator under Conditions of Change in Gravity, by A. A. Volkov, V. G. Denisov and Ye. O. Zav'yalov, 18 pp. RUSSIAN, per, Voprosy Psikhologii, No 5, Sep-Oct 1965, pp. 5-17.

JPRS 33216

Experimental Study of the Sensomotor Responses in a Probabilistic Situation As a Function of the Strength and Mobility of the Nervous System, by L. I. Umanskiy and S. I. Shapiro, 16 pp. HUSSIAN, per, Voprosy Psikhologii, No 5, Sept-Oct 1965, pp. 18-27. JPRS 33216

Formulation or Strategy for the Strategy for the Solution of Discrete Operative Problems, by D. N. Zavalishina, 17 pp. RUSSIAN, per, Voprosy Psikhologii, No 5, Sept-Oct 1965, pp. 71-61. JPRS 33216

A New Work on the Problem of Children's Play Book Review, by Ye. S. Makhlakh, 5 pp. RUSSIAN, per, Voprosy Psikhologii, No 5, Septoct 1965, pp. 146-148.

JPRS 33216

Contradictory Vision, by R. Podol'nyy. RUSSIAN, per, Znaniye-Sila, Moscow, No 8, 1965, pp 34-37.
*ACSI I-8744
ID 2204060365

Soviet Hypodynamia Experiment, by L. Agayan, I. Grigir'yev, T. Mashkevich, and K. Nikitenko, 17 pp.

RUSSIAN, per, Znaniye-Sila, No 10, Oct 1965, pp. 6-9.

JPRS 33504

Some Date on Anthrax in the Krasnoiarsk Krai, by G. I. Mcshalkin, 3 p. RUSSIAN, pcr, Zhurnal Mikrobilogii Epidemiologii i Immunobiologii, No 4, April 1965, pp 78-80. *ACSI 1-9282
ID 22040097 66

Sea Snakes of the Gulf of Tonkon, by V. P. Shuntov, 8 pp. RUSSIAN, per, Zool Zhur, Vol XLI, No 8, 1962, pp 1203-1209. Dept of Navy Tr 4419/NOO Tr 240

Acclimatization of Fish and Food Organisms in the Seas of the USSR, by G. L. Shkorbatov, 6 pp. RUSSIAN, per, Zoologicheskiy zhurnal, Vol 44, No 10, 1965, pp. 1585-1538.

JPRS 33497

Evolution of Individual Cumulus, by Chen Jui-yung. CHINESE, per, Acta Meteorologica Sinica, Vol XXXIII, No 2, 1963, pp 257-270. 9698753 AFGRL Emmanuel College-EMM 65-1

On Evolution of Living Organisms, by T'ung Ti-chou (4547 4574 0719), 13 pp. CRIMENS, per, Hung-ch'i, No 13, 6 per 1965, pp. 41-47.
JPMS 33699

Scientific

Biological & Medical Sciences (Contd)

Further Effort for Comp. Shensive Development of Paleoanthropology, by Yang Chungchien (2799 6988 0256), 9 pp. CHINESE, per, K'o-hsueh T'ung-pao, No 6, 1965, pp. 472-476.

JPRS 33356

The Discovery and the Earth Strata of the Sinanthropus Lantianensis Woo Skull, by Chia Lan-p'o (6328 8948 0980), 11 pp. CHINESE, per, K'o-hsueh T'ung-pao, No 6, 1965, pp. 477-481.

JPRS 33356

The Nature and Age of the Sinanthropus Lantianensis Woo Fauna, by Chou Ming-chen (0719 2494 6966), 13 pp. CHINESE, per, K'o-hsueh T'ung-pao, No 6, 1965, pp. 482-487.

JPRS 33356

The Characteristics of the Sinanthropus Lantianensis Woo Skull and Its Position in Man's Development, by Wu Ju-l'ang (0702 3067 1660), 12 pp. CHINESE, per, K'o-hsueh T'ung-pao, No 6, pp. 488-493.

JPRS 33356

The Development of Molecular Biology, by Ts'so T'ien-ch'in (2580 1131 2953) and Wang Te-pao (3769 1785 1405), 12 pp. CHINESE, per, K'o-hsueh T'ung-pao, No 9, 20 Sept 1965, pp. 753-759.
JPRS 33605

Entomophilic Microorganisms and Their Uses, by Tseng Haing (2582 4164), 11 pp. CHIMESS, per. K'o-hauch T'ung-pao, No 9, 20 Sept 1965, pp. 788-794.

JPRS 33605

Progress in Supersonic Diagnosis and Its Evaluation, by Hau Chih-chang (1776 2535 4545), 9 pp. CHINESS, per, K'o-hauch T'ung-pao, No 9, 20 Sept 1965, pp. 794-798. JPRS 33605

Effect of Immunization Serum on Phagocytes, Bactericidins, and Cell Metabolism, by Fang Ting (2455 0002), Wang Hui-fen (3769 1979 5358), and Su Mei-k'un (5685 5019 1507), 6 pp. CHINESE, per, K'o-hsueh T'ung-pao, No 9, 20 Sept 1965, pp. 808-810.

JPRS 33605

Fight Schistosomi Sis, by Kuo Yuan-hua (6753 3293 5478) and Ch'en Ming-kang (7115 0682 0474), 6 pp.
CHINESE, per, K'o-hsueh Ta-chung, No 10, Oct 1965, pp. 6-7.
JPRS 33433

The Development of Microbiology, by Teng Shu-ch'um (6772 0647 5028), 8 pp. CHINESE, per, K'o-hsueh T'ung-pao, No 10, Oct 1965, pp. 889-891.

JPRS 33433

Problems of Electro-Auditory Perception, by Liang Chih-an (2733 0037 1344), 14 pp. CHINESE, per, K'o-hsueh T'ung-pao, No 10, Oct 1965, pp. 892-897.

JPRS 33661

A Method of In-Vitro Growth of Epithelial Cells, by Chu-jun (2543 5732), Shen Jui-chen (9046 5726 3791) and Hsu Shao-yen (4748 9775 3044), pp. CHINESE, per, K'o-hsuen T'ung-pao, No 10, Oct 1905, pp. 919-920.

JPRS 33201

Thirty Minute Pregnancy Test, by Huang Yuan-tung (5124 13744 12274), Liu Shu-chin (7260 10041 2109), 7 pp. CHINESE, per, K'o-haueh T'ung-pao, No 10, Oct 1965, pp. 920-922.

JPRS 33201

Division of Zoogeographical Regions Based on Studies of Mammalian Fauns of the Chinghai-Kansu Region, by Chang Yung-tau (1728.8894 4371), 13 pp. CHINESE, per, Yung-vu Haueh-pao, Vol 16, No 2, Jun 1964, pp. 315-320.

Scientific

Biological & Medical Sciences (Contd)

Recent Data on Indole Alkaloids -- Structural Relationship and Important Development in Recent Years, by Ch'en Chung-liang (7115 0112 5328), 34 pp.
CHINERE, per, Yao-hsueh Hsueh-pao, Vol 12, No 2, Feb 1965, pp. 132-154.
JPRS 33090

Starting Out Tactical Exercises, by B. Rupes.
CZECH, per, Obranda Lidu, No 20, 1965. *ACSI 1-8755
ID 2204000366

Biologically Decomposable Detergents, by M. Ranny. CZECH, per, Prumysl Potravin, Vol XVI, No 8, 1965, pp 419-422. *ACSI I-9190 ID 2204004466

Medical Care, Annual Report of the SGHP, by Dr. F. Estrade, 52 pp. FRENCH, rpt, Madagascar, 1963, DIA LN 22-65 ID 1860005265

The Secondary Lymphoid Nodules, by G. J. Thorbecke, J. Hurlimann. FRENCH, per, Nouvelle Rev Francaise d'Hematologie, Vol V, No 3, 1965, pp 385-92. 9230571 AEC-ORNL-Tr-806

Viral Encephalitis in Austria Caused by Tick-Bite, by Von H. M. Jettmar, Graz. GERMAN, source unknown, pp 174-179. *ACSI I-8933-B ID 2204066265

Relative Effect of Isometric and Dynamic Training Endurance during Dynamic Exertion, by K. Kogi, E. A. Muller, 17 pp.
GERMAN, per, Internalt Z fuer Angewandte
Physiologie, Einschliesslich Arbeitsphysiologie, No 20, 1965.
Dept of Navy Tr 4422/ONI Tr 2025

Work Pulse Frequency as an Indicator for Long Term Muscle Exhaustion, by E. A. Muller, K. Kogi, 6 pp. GERMAN, per, Interna'tl Z fuer Angewendte Physiologie, Einschliesslich Arbeitsphysiologie, No 20, 1965. Dept of Navy Tr 4421/ONI Tr 2024

Ecology of Ixodes Ricinus in the Flock Breeding Areas of Nemo Virus Infectious of People in the Territory of the German Democratic Republic by V. P. Negroboy et al. GERMAN, per, Angewandte Parasitologie 6, Jahrgang, Heft 2, Juni 1965, pp 94-110. *ACSI I-8763 ID 2204001166

The Influence of Storage on the Preservation Quality of Dried Produce, by Paul Goring. GERMAN, rpt, Inclosure to 2834026465, 1965. *ACSI I-9173 ID 2834026465

The Parthenogenesis, Clinic and Therapy of Acute Radiation Sickness on Testing With Monkeys, by B. A. Lapin. GERMAN, rpt, Die Pathogenese, Linik und Therapie der Akuten Strahlenkrenkheit Bei Versuchan an Affen. 1964,

**ACSI 1-3891 A

ID 2204065565

On the Decay Modulus of Fluorescence, by O. Stern, M. Volmer. GERMAN, per, Physik Z, Vol XX, 1919, pp 183-188. 9231666 AEC-ORNL-Tr-898

Prevention of Microbiological Spoilage of Foodstuffs, GERMAN, per, Progress in the Processing Techniques of the Packaging and Foodstuffs Industry, 1962.

*ACSI I-8388
ID 2204044765

Milk-Efixir of Lire. GERMAN, per, Urania, No 8, 1965, pp 641-649. *ACSI I-8772 ID 2204002166

The Use of Interference Currents in the Combined Exclusion of Pain in Surgical Operations, by N. I. Kuxin, V. D. Zhukovskiy, et al. GERMAN, bk, die Verwendung von Interferenzstromen in der Kombinierten Schmerzausschaltung bei Chirurgischen Operationen. 9230646 NASA TT F-9546

Scientific

Biological & Medical Sciences (Contd)

Further Investigations of the Prophylaxis and Therapy of Radiation Sickness, by Hamns Langendorff, et al.
GERMAN, rpt, Weitere Untersuchungen uber die Prophylaxe und Therapie der Strahlenkrankheit. 1965.
*ACSI I-8891 B
ID 2204065565

An Investigation into a Natural Focus of Tick-Borne Encephalitis (TBE) in Lower Austria, by G. Pretzmann, A. Radda, et al. GERMAN,per, Z. Morph Okol Tiere, 1964, pp 393-413.

*ACSI I-8933-C
ID 2204066265

Studies of the Ecology of Ixodes Ricinus in an Endemic Area of Tick-borne Encephalitis (TBE) in the New Church District (Lower Austria, by G. Pretzmann, et al. GERMAN, per, Zentralblatt fur Bakteriologie Orginale, No 10, 1962, pp 3-7.

*ACSI I-8933 A
ID 2204066265

Experimental Infection of Mus Musculus With Tick-Borne Encephalitis Virus, by A. Radda, G. Pretzmann, et al. GERMAN, per, Zentralblatt fur Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene, 1964, pp 285-292.

*ACSI I-8933-D
ID 2204066265

Influence of Hibernation on the Multiplication of Virus After Experimental Infection of the Ground Squirrel, (Citellus Citellus) With Tick-Borne Encephalitis Virus, by A. Radda & G. Pretzman, GERMAN, per, Zentralblatt für Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene, 1964, pp 413-420.

**ACSI I-8933 B
ID 2204066265

Fluothane Icterus in Childhood, by R. Fono. HUNGARIAN, per, Orvosi Hetilap, 1964, pp 557-558. *ACSI I-9064 ID 2204069965

Use of Pedagogic Psychological Nethods in Training (Part I), by Ivan Kamenczy, 12 pp. HUNGARIAN, per, Polgari Vedelem, No 7, July 1965, pp 18. DIA LN 221-65

Behavior of Orothin-Carbomyl-Transferase (Oct) of the Serum After Narcosis with Fluothane in Obstetrics and Gynecology, by R. Belgeri, A. Ferrero. 9 pp. ITALIAN, per, Annali Ostetrica e Ginecologica, No IX, 1964, pp 763-770.

ACSI 1-9055
ID 2204069065

Histological Research on Renal and Suprarenal Parenchyma of Cavies Anesthetized With Fluothame, by U. Fratello, 12 pp.
ITALIAN, per, G. Ital Chir (Italiam Surgical Journal) No 20, 1964, pp 527-543.
ACSI I-9057
ID 2204069265

Comparative Experimental Study of Histological Changes of the Liver and Kidneys in Acute Intoxication form Chloroform, Fluothane and Methomyfluorane, by L. Balestra, B. Giardina.10 pp. ITALIAN, per, Minerva Anestesiologica, No 30, 1964, pp 311-318.
ACSI 1-9058
ID 2204069365

Histological Research on the Hepato-Lienal Parenchyma of Cavities Treated With Fluothame, by Ugo Fratello, 10 pp. ITALIAN, per, Minerva Anestesiologica, No 1, 1965, pp 1-6.
ACSI I-9059
ID 2204069465

Contribution to the Study of Hepatic Toxicity form Halothane, by Julio Costa, Cardoso de Silva, 8 pp. PORTUGUESE, per, Jornal do Medico, No 53, 1964, pp 141-144.

ACSI I-9063
ID 2204069865

Scientific
Biological & Medical Sciences (Contd)

Progress in Diagnosis, Treatment and Protection Against Certain Infectious Diseases, by R. Kaljalovic, 9 pp. SERBOCROATIAN, per, Vojnosanitetski Pregled, Vol XXII, No 2, 1965, pp 88-92.

ACSI I-7394
ID 2204025665

Statistical Summary of the Work Done at the National Institute of Surgery and Anesthesiology, by Dr. Carmen Pascual Jacomino, Jose A. Chaple, and Ramiro Iglesias, 13 pp. spanish, per, Revista Cubana de Cirugia, Vol 4, No 1, 28 Feb 1965, pp. 5-15.

JPRS 33304

The Pain Clinic, by Dr. Alberto Fraga, 6 pp. SPANISH, per, Revista Cubana de Cirugia, Vol 4, No 1, 28 Feb 1965, pp. 124-128.
JPRS 33304

Cuban Medical Research, 11 pp. SPANISH, per, Revista Cubana De Pediatria, Vol 37, No 1, 28 Feb 1965, pp. 1-4, 5, 13, 14, 25, 28, 30, 33-34, 35, 45, 46, 55, 57, 64, 65, 74, 76, 80, 81, 83-84, 86, 93-94, 95, 100, 101, 109-110, 111, 115, 128.

JPRS 33589

Biological was Possible without Expidemics. SWEDISH, per, Svenska Dagbladet, 23 Nov 1964. *ACSI 1-8771 ID 2204001966

Scientific Chemistry

Isolation, Partial Purification and Certain Properties of Acetylcholinesterase from Erythocytes of Cattle, by D. L. Pevzner, ll pp.
RUSSIAN, per, Biokhimiya, Vol 30, No 5, 1965, pp. 980-984.
JPRS 33533

Oxygen Isotope Exchange Between
Heavy Oxygen Water and Some Tungstates,
by V. I. Spitsyn, R. E. Aistova.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CIV,
1955, pp 741-743.
*AEC IS-Trans-28
EDC Jan 17, 1966

Investigation of Interconnection between the Adsorption of cations and anions on platinum From Acid Solutions at Different Potentials, by N. A. Balashova, V. E. Kazarinov. RUSSIAN, per, Elektrokhimiya, Vol I, No 5, 1965, pp 512-516.
*AEC Tr- 2309

Preparation of Ti, Zr, Nb and Ta Solid Solutions With Hf Carbide, With A Study of Their Physical Properties, by G. V. Samsonov, V. N. Paderno. RUSSIAN, per, Izv Akad Nauk SSSR, Metally, No 1, 1965, pp 180-188.

On the Anti-oxidying Action of Smoking Liquids, 4 p.

RUSSIAN, per, Izvestiya Vysshikh Uchebnykh
Zavedeniy-Pishchevaya Tekhnologiya, Moscow,
No 4(47) 1965, pp 34-46.

ACSI I-8739

ID 2204040597 65

Stabilization of Polysiloxanes by Antioxidant Additives, by R. I. Kobsova, G. S. Tubyanskaya. RUSSIAN, per, Khim i Tekh Topliv i Masel, No 2, 1964, pp 53-56.

TTU-TT-65-1845

Chemical Marfare Agents Now Employed or Contemplated by Pentagon in Vietnam, by N. Sidorov, 5 pp. RUBBIAN, np, Krasnaya Zvezda, 13 Nov 1965, p. 5. JPRS 33368

Scientific Chemistry (Contd)

Soldering Titanium Alloys for Medical Equipment, by N. F. Belavin, V. G. Shakhatov, 3 p. RUSSIAN, per, Meditsinskaya Promyshlennost' SSSR, No 5, 1964, pp 51-53. *FTD-TT-65-1998

Study of Diffusion of Carbon and Molybdenum in Chromium, by P. L. Gruzin, S. V. Zemskiy, et al.
RUSSIAN, per, Metal i Metal Chist Metal Vypusk IV, 1963, pp 243-250. 9229971
AERE-Tr-1032

Vaporization of Pure-Oxide Ceramics at High Temperatures, by Ye. S. Lukin, D. N. Poluboyaninov, 15 pp. RUSSIAN, per, Ogneupory, No 9, 1964, pp 418-424. 9698778 FTD-TT-65-934

Passivity and Protection of Metals Against Corrosion, by N. D. Tamashov, G. P. Chernova. RUSSIAN, bk, Passivnost' i Zashchita Metallov ot Korrozii.

Polyarylates, by V. V. Korshak and S. V. Vinogradova, 61 pp. RUSSIAN, bk, Poliarilaty, 1964, pp. 3-72. JPRS 33612

A Forum of Scientific and Practical Workers in Chemistry- Medeleev Congress. RUSSIAN, per, Priorda, No 8, Aug 1965, pp 71-74.
*ACSI I-8745
ID 2204060465

The Magnetic Properties of Ferrocene Containing Polymers, by Belash P. M., Ya. M. Paushkin, et al, 6 p.
RUSSIAN, per, Trudy, Moscow Institut Neftek-himicheskoy i Gazovoy Promyshlennosti, No 51, 1964, pp 48-53.
*FTD-TT-65-2043

The State of Research in the Field of Peptide and Protein Chemistry, 11 pp. RUBSIAN, per, Vestnik Akademii Hauk SOSR, No 10, 1965, pp. 3-9.
JPRS 33689

Scientific Chemistry (Contd)

The Separation of Magnesium, Aluminum, Chromium, Manganese, Iron, Nickel, and Copper by Ion Exchange, by D. I. Ryabchikov, V. F. Osipova.

RUSSIAN, per, Zhur Analit Khim, Vol XI, 1956, 279-285. 9231647

AEC-ORNL-Tr-721

Phase Transformation of Higher Vanadium Carbide, by Volkova, N. M. et al. RUSSIAN, per, Zhur Neorganicheskoi Khimii, Vol 10, 1965, p 1758.
*AEC
EDC 1/14/66

Corrosion Protection by Cold Phosphating Process, by V. S. Lapatukhin.
RUSSIAN, per, Zhur Priklad Khim, Vol XXIV, Apr 1961, pp 373-382.
*ACSI I-9170
ID 2204002466

Process for Making a-alkenyl Esters, by
I. I. Moiseev, M. N. Vargaftik, 3 p.
RUSSIAN, pat, Author's Patent Cert. No 137,511.
Dept of Commerce
Patent Office

Foam Polyvinyl Chloride Insulation Cables, by Cheng Sen (6774 2773), 9 pp. CHINESE, per, Hua-haueh Shih-chieh, No 6, 10 Jun 1965, pp. 254-256.

JPRS 33380

New Type Mold Release Agent-Silicon Oils, by Chao Kuang-hsien (6392 0342 6343), 6 pp. CHINESE, per, Hua-hsueh Shih-chieh, No 9, 10 Sept 1965, pp. 392-393. JPRS 33380

Cephalosporin, by Chang Pang (1728 3316), 26 pp.
CHINESS, per, Hua-haueh T'ung-pao, No 8, Aug 1965, pp. 1-12.
JPRS 33566

Preparation of Dutyraldehyde from Crotonaldehyde by Hydrogenation over a Nickel Catalyst, by Chang Hua (1728 0553), T'ang K'o-kuang (0781 0344 0342), Ch'en Tu-hui (7115 4648 1920), and Wang Ju-yu (3769 1172 3842), 6 pp. CHIMESE, per, Hua-haueh T'ung-pao, No 8, Aug 1965, pp. 55-57. JPRS 33566 Scientific Chemistry (Contd)

Application of Polysiloxanes in Adhesives, by Ch'en Tao-i (7115 6670 5030), 32 pp. CHINESS, per, Hua-hsueh T'ung-pao, No 10, Nov 14, 1965, pp. 24-34.

JPRS 33442

The Chemistry of Polyformaldehyde, by Hsiao Wei-wei, 34 pp.
CHINESE, per, <u>Hua-hsueh T'ung-pao</u>, No 11,
Nov 1964, pp 22-33
JPRS 32798

Progress in Interfacial Polycondensation, by Shen Chung-ho, 14 pp.
CHINESE, per, Hua-hsueh T'ung-pao, No 11, 14 Nov 1964, pp 43-49
JPRS 32798

Advancement in the Study of Organic Nitrogen Fixation, by Chang Hsien-wu (1728 2009 2976), 14 pp. CHINESE, per, K'o-hsueh T'ung-peo, Aug 1965, pp. 705-713.

JPRS 33486

Chemical Nickel Plating, by Chou Jungt'ing (0719 2837 1656), 9 pp. CHINESE, per, Shang-hai Chi-haieh, No 7, 25 Jul 1964, pp. 29-31. JPRS 33566

Physical Chemistry of Protactinium, by Robert Guillaumont. FRENCH, per, Colloques Internationauc du Centre National de la Recherche Scientifique, Vol CLIV, Jul 2-8, 1965. 9231679 AEC-UCRL-Tr-1244-L

Thermal Decomposition of Uranyl Nitrate, by Paul Lebeau. FRENCI, per, Comptes Rendus, Vol CLIV, 1912, pp 1612-1614. 9231635 AEC-Tr-6619

Extraction of Some Acids Using Aliphatic Amines, by Luis Matutano. FRENCI, rpt, Extraction de Quelques Acides Par des Amines Aliphatiques, Report CEA-R-2760. 1965, 55 pp. *AEC ORNI-Tr-1050 EDC Feb 10, 1966 Scientific Chemistry (Contd)

Biochemical Studies of Salt-Cured Meat, by L. Ten Cate. FRENCH, per, Revue de la Conserve, No 5, Jul, Aug 1965, pp 209-216. *ACSI I-9187 ID 2204004166

Polyethylene Chlorination process, by A. G. Ruhrchemie, 8 p. FRENCH, pat, Patent No 559, 808. Dept of Commerce Patent Office

The Kinetics of the Recrystallization of Copper Deformed at Low "Temperatures", by by H. D. Mengelberg, M. Meixner, et al. GERMAN, per, Acta Metallurgica, Vol XIII, 1965, pp 835-344. 9230559
AEC-ORNL-Tr-775

The Quantitative Determination of Gases With the Help of Chromatography, by Herbert Pietsch, 12 pp. GERMAN, per, Erdol u Kohle, Vol XI, 1958, pp 702-705, 9230422.

AEC RFP-trans-10

A New Way in the Field of Cold Phosphating, by A. Foldes. GERMAN, per, Korrosion und Metallschutz, Vol XIX, No 10, 1943, p 281. *ACSI I-9176 ID 2204003066

Determination of Microquantities of Chloride in Water, by H. U. Woelk. 14 pp. GERMAN, 1pt, No. HMI-B-7, Bestimmung von Mikromengen Chlorid in Wasser: Hahn-Meitner-Institut für Kernfürschung Berlin, Nov 1959. *AEC EDC 30 Jan 1966

Oxygen Intake and Respiratory Functions at Great Hieghts, by E. Hohwu Christensen, 11 pp. GERMAN, rpt, Sauerstoffaufnahme und Respiratorische Funktionen in Grossen Hohen, pp 88-100. ACSI I-8842 ID 2204065265 Scientific Chemistry (Contd)

Investigations on Lanthionine Formation
From Cystine and Sulphite with the Use of
Radioactive Labelled Compounds, by H. Zahn.
B. Ulrich.
GERMAN, rpt, Symposium on the use of Radioactive Isotopes in Textile Research and
Industry, Lindau/Bodensee, 8-10 July 1964.
9231651
AEC-NP-Tr-1301

The Chemistry of Lithoum, III Lithium Hydride, by G. F. Huttig, Krejewski.
GERMAN, per, Z fur Anorganische und Allgemeine Chemie, Vol CXLI, 1924, 133-160. 9230532
UCRL Tr 0255(L)

Ferrimagnetism of Mn₄N and some Mixed Crystals of Mn₄N, by Robert Juza, Heinrich Puff.

GERMAN, per, <u>Z fur Elektrochemie</u>, Vol LXI, No 7, 1957, pp 810-819. 9231683

AEC-ANL-Tr-230

The Development of Chemistry of Synton Part II, by Toth Bela.

HUNGARIAN, per, Shoe and Leather Technology,
Vol XIV, No 5, pp 108-112.

*ACSI I-9292
ID 2204010766

Histotoxic Actions of Fluothame, A Histological Histochemical and Pathogenetical Study, by G. Corso, C. Desenzani, et al. 8 pp. ITALIAN, per, Rivista Anatomia at Oncol, No 25, 1964, pp 124-132. ACSI I-9056 ID 2204069165

Study on the Adsorption of Iodine on Activated Carbon, Part II, by Helena Jankowska.

POLISH, per, Przemysł Chem, Vol XLIV, No 5, 1965, pp 235-239.

*AEC ORNL Tr-1018

EDC Jan 16, 1966

Scientific Chemistry (Contd)

Filtration With Additional Filtrating Layer, by H. Burger, E. Riedel. POLISH, per, Przemysl Chem, Vol XLIV, No 5, 1965, pp 279-281.
*AEC ORNL Tr 1016
EDC Jan 16, 1966

Study on the Adsorption of Iodine on Activated Carbon Part III, by Helena Jankowska.
POLISH,per, Przemysl Chem, Vol XLIV, No 6, 1965, pp 295-298.
*AEC ORNL Tr-1017
EDC Jan 16, 1966

Compounds of Noble Gases, by Zdzislaw Bankowski, Andrzej Cybulski, et al. POLISH, per, <u>Wiadomosci Chemiczne</u>, Vol XIX, 1965, pp 95-131. 9231645
AEC-Tr-6609

Earth Sciences & Astronomy

Aerology in the Polar Regions, by S. S. Gaygerov, 172 pp. RUSSIAN, bk, Aerologiya Polyarnykh Rayonov, 1964, pp. 1-304.
JPRS 33068

Two Types of Ionspheric Storms, by A. S. Besprozvannaya, 16 p. RUSSIAN, per, Arkticheskiy i Antarkticheskiy Nauchno-Issledovatel'skiy Institut, Sbornik Statey, No 13, 1963, pp 76-78.

ACSI I-8581
ID 22040405 65

Use of the Tracking Median Method for the Estimation of Exact Positions of an Artificial Satellite, by A. A. Kiselev. RUSSIAN, per, Byulleten' Stantsiy Opticheskogo Nablyudeniya Iskusstvennykh Sputnikov Zemli AN SSSR, Astronomicheskiy Sovet, No 32, 1963, pp 16-24.

Scientific
Earth Sciences & Astronomy (Contd)

On the Crystallization of Phytol haria in Soils, by E. A. Yarilova, 2 pp. RUSSIAN, per, Doklady Akademia Nauk Vol 83, 1952, pp 911-912. *CFSTI TT 66-51128

Temperature Dependence of Frequency and Emission Width of the R₁ Line in Ruby, by M. Ye. Movseyan, et al. RUSSIAN, per, Doklady Ak Nauk ARMSSR, Vol 39, No 4, 1964, pp 217-219.
*FTD-TT-65-2006

Radioastronomical Investigations and Ionosphere of Venus, by A. D. Danilov. RUSSIAN, per, Dokl Akad Nauk SSSR, Vol CLXII, No 4, pp 774-777.
NASA TT F-9692

Ejections in the Solar Atmosphere, by S. O. Obashev. RUSSIAN, per, <u>Dokl Akad Nauk SSSR</u>, Vol CLXIII, No 3, 1965, pp 599-602. NASA TT F-9697

Some Aspects of the Interpretation and Use of Cloud Data from Meteorological Satellites, by Sh. A. Musayelyan, 8 pp. RUSSIAN, per, Doklady Akademii nauk SSSR, Vol 163, No 5, 11 Aug 1965, pp. 1134-1137. JPRS 33405

Vertical Motion of Waters in the Northern Tropical and Equatorial Zones of the Pacific Ocean, by R. R. Belevich, 5 pp. RUSSIAN, per, <u>Doklady Akademii nauk SSGR</u>, Vol 163, No 6, 21 Aug 1965, pp. 1481-1483. JPNS 33344

Mesothorium-I Concentration in the Black Sea, by K. F. Lazarev, S. M. Grashchenko, D. S. Mikolayev and V. M. Droshzhin, 6 pp. RUSSIAN, per, <u>Doklady Akademii Nauk SSSR</u>, Vol 164, 1965, pp. 910-912. JPRS 33212

Peculiarities in the Motion of Fine Meteoric Bodies, by B. L. Kashcheyev, V. H. Lebedinets, M. F. Lagutin, 7 pp. RUBBIAN, per, <u>Doklady Akademii Nauk SBSR</u>, <u>Seriya Matematika</u>, <u>Pisika</u>, Vol 164, Nos. 4, 5, 6, 1965, pp. 1256-1259. JPRS 33614

Determination of the Focal Depth of a Near Earthquake from Epicentral Distance, Travel Time and the Travel-Time Curve Derivative, by A. A. Poplavskiy, 12 pp. RUSSIAN, per, Geologiya i Geofizika, No 8, 1965, pp. 87-96. JPRS 33210

Seismic Surveys in the Region of Avachinskiy Volcano, by S. T. Balesta and G. S. Shteynberg, 8 pp. RUSSIAN, per, Geologiya i Geofizika, No 8, 1965, pp. 129-133.
JPRS 33210

A Comparison of the Epicentral Zones of Aftershocks with the Basic Elements of the Relief and Stresses in the Foci of Their Main Shocks, by N. S. Borovik and K. V. Pshennikov, 7 pp. RUSSIAN, per, Geologiya i geofizika, No 9, 1965, pp. 127-130.

JPRS 33687

The Effect of Diffracted and Reflected Wave Interference on the Features of Seismograms: According to Model Investigations, by A. A. Bykov and Ye. K. Chalikova, 10 pp. HUSSIAN, per, Geologiya i geofizika, No 9, 1965, pp. 131-137.

JPRS 33687

All-Union Conference of Geologists, by B. Kornev, 10 pp. RUSSIAN, per, Geologiya Nefti i Gaza, No 7, July 1965, pp 62-65. ACSI I-8574 ID 2204051765

Corrosion Resistance of Substances in Sea Water, by E. V. Konstantinova, L. S. Semenova, et al.
RUSSIAN, rpt, International Symposium on Water Desalination, Washington 3-9 October, 1965. Paper SWD/73.
*AEC Tr 2324
EDC 12/22/65

Investigation of the Polar Auroras, Geomagnetic Distrubances, and the Ionosphere at High Lattitudes, by S. I. Isayev. RUSSIAN,bk, Issledovaniye Polyarnykh Siyaniy, Geomagnitnykh Vozmushcheniy i Ionosfery v Vysokikh Shirotakh. 1965. 9230080-V NASA TT F-386

Scientific Earth Sciences & Astronomy (Contd)

Soil Science and Drought Control, by N. M. Sibirtsev. 584 p. RUSSIAN, per, Izbrannye Sochineniya Vol 2, 1953.
*CFSTI TT 66-51136

Colloidal Chemistry as Related to Soil ScienceII: Rapidity of Reaction Exchange in the Soil. The Colloidal Condition of the Soil Saturated With Various Bases, and the Indicator Method of Determing the Colloidal Content of the Soil, by K.K. Gedriots. 17 p. RUSSIAN, per, Izbrannyye Sochineniya, Vol 1, 1955, pp 105-121. *CFSTI TT 66-51135 /2

The Absorbing Capacity of the Soil and Soil Zeolitic Bases, by K. K. Gedroits. 38 p. RUSSIAN, per, Izbrannyye Sochineniya, Vol 1, 1955, pp 176-213. *CFSTI TT 66-51135/1

Contemporary Laterite and Lateritic Soils, by I. P. Gerasimov.
RUSSIAN, per, Izvestiya Akademii Nauk,
Seriya Geograficheskaya, No 2, 1961,
pp 3-12.
*CFSTI TT 66-51120

All-Union Congress of the All-Union Mineralogical Society, by M. A. Kashkay, S. A. Makhmudov, et al, 6 p. RUSSIAN, per, Izvestiya Akademii Mauk SSSR, Seriya Geologicheskaya, Mo 12, 1964, 113-121. ACSI 1-7970
ID 22040433 65

Atmospheric Propagation of a Heavy Impurity Released by a Point Source, by Ya. S. Rabinovich, 13 pp.
HUSSIAN, per, Izvestiya AN SSSR, Fizika Atmosfery i Okeana, Vol I, No 9, 1365, pp. 920-920.
JPRS 33249

Investigation of the Spectral Composition of Short-Wave Solar Radiation, by K. Ya. Kondrat'-yev, N. P. Burgova, V. V. Nikhaylov and V. S. Grishechkin, 17 pp. RUSSIAN, pcr, Izvestiya AN SSSA, Fizika Atmosfery i Okeana, Vol I, No 9, 1,05, pp. /29-/40. JPRS 3324)

Spectral Distribution of Reflected Terrestrial Radiation in the Ozone Absorption Band 0.20-0.34 Am, by T. A. Germogenova and M. S. Alkevich, 15 pp.
RUSSIAN, per, Izvestiya AN SSSR Fizika Atmosfery i Okeana, Vol. I, No 9, 1965, pp. 941-951.
JPRS 33249

Stability of Homophase Aerosols and Its Artificial Regulation, by A. G. Kachurin and V. G. Morachevskiy, 41 pp.
RUSSIAN, bk, Kinetika Fazovykh Perekhodov
Vody v Atmosfere, 1965, pp. 102-135.
JPRS 33463

Buried Soils and Their Paleographic Significance, by I. P. Gerasimov.8 pp.
RUSSIAN, per, Materially Vses. Soveshch.
po Izuch. Chetvertichn. Perioda, Vol 1,
1961, pp 224-231.
*CFSTI TT 66-51122

Hechanical and Microaggregate Composition of Soils, Methods of Their Investigation, by N. A. Kachinskiy. 192 p.
RUSSIAN, bk, Mekhanicheskiy i Mikroagregatnyi Sostav Pochvy, Metody (go Izucheniya, 1958, *CFSTI TT 66-51123

The Place and Role of Contemporary Soil
Science in Science and Life (Selected Morks),
by V. V. Dokuchaev. 9 pp.
RUSSIAN, bk, !ssto i Rol'sovremennogo
Pochvovedeniya v Nauke i Zhizni
(Izbrannyye Sochineniya), Vol III, 1949,
pp 330-338.
*CFSTI TT 66-51117

Number of Lightning Strokes in Summer in European, USSR., by N. I. Leushin. RUSSIAN, per, Part i Gid, No 9, 1964, pp 22-29.
*FTD-TT-65-1798

Influence of Tropospheric Processes on Changes in the Temperature Field and Circulation in the Stratosphere, by Kh. P. Pogosyan.
RUSSIAN, per, Meteorologicheskiye Issledovaniya, No 9, 1965, pp 30-51. 9230087

Scientific
Earth Sciences & Astronomy (Contd)

Seasonal Reconstruction of the Wind Field in the Stratosphere, by K. Ye. Speranskiy. RUSSIAN, per, Meteorologicheskiye Issledovaniya, No 9, 1965, pp 52-57. 9230092

NASA TT F-398

Processes in the Stratosphere Based on Rocket Sounding Data, by L. A. Rayazanova, I. A. Khvostikov.

RUSSIAN, per, Meteorologicheskiye Issledovaniya, No 9, pp 58-63, 1965. 9230102

NASA TT F-399

Climatology of Noctilucent Clouds According to Observations Performed During the IGY, by V. V. Sharonov.
RUSSIAN, per, Meteorologicheskiye Issledovaniya, No 9, 1965, pp 143-149. 9230078
NASA TT F-400

Unitary Vertical Conduction Currents as a Measure of Thunderstorn Activity for the Entire Surface of the Earth, by N. A. Paramonov. RUSSIAN, per, Meteorologicheskiye Issledovaniya, No 9, 1965, pp 167-173. 9230085

Atmospheric Motion in Equatorial Latitudes, by V. S. Purganskiy, 14 pp. RUSSIAN, per, <u>Meteorologiya i Gidrologiya</u>, No 11, 1965, pp. 3-13. JPRS 33447

Prognostic Significance of Some Characteristics of the Temperature and Pressure Fields in the Lower Stratosphere, by N. M. Zakharova, 11 pp.
RUSSIAN, per, Meteorologiya i Gidrologiya, No 11, 1965, pp. 33-33.
JPRG 33447

Extinct Cyclone Photographed from a Satellite, by A. D. Zamorskiy and L. S. Minina, 10 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No 11, 1965, pp. 38-43.

JPRS 33447

A Method for Correction of Long-Term Precipitation Norms, by L. R. Struzer, I. N. Mechayev, E. G. Bogdanova and Ye. A. Fedorova, 11 pp.
RISSIAN, per, Meteorologiya i Gidrologiya, No 11, 1965, pp. 43-50.
JPRS 33447

Agrometeorological Indices of Flax-Fiber Growth, by L. V. Andrianova, 8 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No 11, 1965, pp. 51-54.
JPRS 33447

Outgoing Radiation and the Radiant Heat Flux, by K. Ya. Kondrat'yev, 8 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No 11, 1965, pp. 57-61. JPRS 33447

New Soviet Books on Meteorology, 6 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No 11, 1965, pp. 63-65.
JPRS 33447

Soil Absorbing Complex and the Absorbed Soil Cations as a Basis of Genetic Soil Classification, by K. K. Gedroits. 133 p. RUSSIAN, rpt, IN: Narodnyi Komissaryat Zemledeliya, Nosovskaya Paper No 38: p. 3-30, 1925 and Paper No 47, 105 p. 1927. *CFSTI TT 66-51135/3

Our Steppes, Formerly and at Present (Selected Works), by V. V. Dokuchaev. 66 pp.
RUSSIAN, bk, Nashi Stepi-prezhde i Teper' (Izbrannyye Sochineniya), Vol II, 1949, pp 163-228.
*CFSTI TT 66-51118

Along the Bottom without an Aqua Lang, by Ye. Ninburg, 6 p.
RUSSIAN, per, Nauka i Zhizn', No 0, 1965, pp 156-159.
ACSI I-8731
ID 22040589 65

Scientific
Earth Sciences & Astronomy (Contd)

To the Problem of Soil Formation in the Middle Taiga of the Trans-Ural Region, by A. A. Zavalishin.

RUSSIAN, per, Pochvovedenie, No 4-5, 1944, pp 180-204.

*CFSTI TT 66-51131

The Nature of the Light-Colored Contact Horizon of Soils on Binary Deposits, by B. G. Rozanov. 8 pp. RUSSIAN, Pochvovedeniye No 6, 1957, pp 16-23.
*CFSTI TT 66-51127

Seismic Love Waves, by V. I. Kelis-Borok, et al.
RUSSIAN, bk, Poverkhnostnye Volny Lyava, 1965.
*CB

Stability of Frost Patterns, by A. D. Zamorskii. 2 p. RUSSIAN, per, Prioroda, Vol 47, No 4, 1958, pp 113-114. *CFSTI TT 66-51096

Mesometeorology, by N. I. Novozhilov, 10 pp. RUSSIAN, per, Priroda, No 10, Oct 1965, pp. 34-39.
JPRS 33336

Commic Ray Research of the Musala Mountain Research Station, by Tsvetan Tsvetkov, 7 pp. RUSSIAN, per, Priroda, No 11, Nov 1965, pp. 76-79. JPRS 33446

Radio Wave Propagation in the Earth's Crust, by A. M. Ryazantsev and A. V. Shabel'nikov, 31 pp. RUSSIAN, per, Radiotekhnika i elektronika, Vol 10, No 11, Nov 1965, pp. 1923-1940. JPRS 33519

Russian, bk, Regional nava Okeanografiya, Leningrad, 1900, pp 663-712; 728-748; 752-765. Dept of Ravy Tr 4416/800 Tr 193

The Russian Chernozem (Selected Works), by V. V. Dokuchaev. RUSSIAN, bk, Russkii Chernozem: Izbrannye Sochineniya, Moskva, Vol 1, 1948, pp 480. *CFSTI TT 66-51133

To the Study of the Genesis of the Soils of the Podzolic Type on the Clay Loam Mantle of the Central Part of the Russian Plain, by A. A. Zavalishin, V. R. Firsova. 89 pp. RUSSIAN, per, Sbornik Rabot Tsentralnogo Muzeia imeni V. V. Dokuchaeva Pochvovedeniya Instituta, Vol 3, 1960, pp 7-95.
*CFSTI TT 66-51130

The Study of Contemporary Soil Formations in the West of the Russian Plains, by A.A. Zavalishin, B. V. Nadezhdin. 30 pp. RUSSIAN, per, Sbornik Rabot Tsentrol'nogo Muzeya Pochvovedniya Instituta im V. V. Dokuchayeva- Akademia Nauk SSSR, Vol II, 1957, pp 27-56.
*CFSTI TT 66-51129.

The Distinctiveness of the Genetic Types of Soils of Siberia, by I. P. Gerasimov. RUSSIAN, per, IN: Sibirskiy Geograficheskiy Sbornik, No 2, 1963, pp 7-27. *CFSTI TT 66-51121

The Nature of a Weak Chromospheric Flare, by M. N. Stoyanova. RUSSIAN, per, Solnechnyye Dannyye, No 3, 1963, pp 46-55.
NASA TT F-248

The Problem of Active Longitudes on the Sun, by Yu. I. Vitinskiy. RUSSIAN, per, Solnechnyye Dannyye, No 3, 1963, pp 64-70. NASA TT F-249

The Relationship Between Photospheric and Chromospheric Processes in the Active Region During Flares, by S. I. Gopasyuk, et al. RUSSIAN, per, Solnechnyye Damnyye, No 4, 1963, pp 77-81.

NASA TT F-251

Scientific
Earth Sciences & Astronomy (Contd)

Reference Book of Indicators of Lithologic Composition, Surface Deposite and Depth of Occurrence of Ground Waters, by
N. G. Vereyskogo, F. A. Vostokovoi, 264 p.
RUSSIAN, bk, Spravochnik-opredelitel'lithologicheskogo Sostava Poverkhnostnykh Otlozheniy i Glubiny Zaleganiya Podzemnykh Vod.
*CFSTI TT 66-51134

Organization, Execution and Acceptance of Work on Construction on Sagging Soil, by A. I. Bokunyayev.

RUSSIAN, bk, Stroitelstvo Na Prosadochnykh Gruntakh Pravilla Organizatsii Proizvodctva I Pryemki Rabot, Moscow 1964. Inclosure to 2218303065, 20 May 65

*ACSI I-8620
2218303065

Conquest of the Depths, by M. N. Diomidov, A. N. Dmitriyev, 35 pp. RUSSIAN, per, Sudostroyeniye, 1964, pp 138-162, 165-172. Dept of Navy 4371/ONI Tr 2021

Electrical Factors in Air Purity, by L. G. Makhotkin. RUSSIAN, per, Trudy Glavnaya Geofiz Obser Inosfermoye Elektrich, No 146, 1963, pp 48-52. *ACSI I-8596 ID 2204053765

Materials on Genetic and Experimental Mineralogy, Vol II. by V. S. Sobolev. RUSSIAN, per, Trudy Inst Geol i Geofiz, No 30, pp 97-168, 1964. NASA TT F-8774

Use of Hydrochemical Characteristics for Defining the Cromwell Current, by V. V. Sapozhnikov, 13 pp. RUSSIAN, per, Trudy Instituta Okeanologii AN SSSR: Metody Gidrokhimicheskikh Isaledovaniy, Vol LXXIX, 1965, pp. 87-96.
JPRS 33267

Reproducibility of Results and Errors in Hydrocnemical Determinations in Oceans Report II. Effects of Bathometers on the Chemical Characteristics of Samples, by A. N. Bogoyavlenskiy, 15 pp.
RUSSIAN, per, Trudy Instituta Okeanologii AN SSSR: Metody Morskikh Gidrokhimicheskikh Issledovaniy, Vol LXXIX, 1965, pp. 49-59.
JPRS 33267

Measuring Low Energy Protons on the Kosmos-41 Satellite, by S. N. Vernov, I. A. Savenko, 11 pp.
RUSSIAN, per, Trudy Izmereniya
Nizkoenergichnykh Protonov, na Sputnike
"Kosmos-41" Kospar Simpozium Buenosaires,
1965.
FTD-TT-65-1642

Concerning the Theory of Measuring Raindrop Size by the Acoustical Method, by V. V. Mikhaylovskaya, 10 pp. RUSSIAN, per, Trudy Leningrad Glavnaya Geofiz Obser, No 157, 1964, pp 48-53. 9698776 FTD-TT-65-764

Radiosonde errors Caused by the Discreteness of the saale, by S. I. Nelomyashchii, 9 p. RUSSIAN, per, Trudy, Naucho-Issledovatel'skiy Institut Gidrometeorologicheskogo Priborostroyeniya, No 11, 1963, pp 96-101.

ACSI I-8591
ID 22040532 65

Determination of Atmospheric Density with a Rocket-Borne Thermistor, by S. P. Perov, 9 pp. RUSSIAN, per, Trudy Tsentral'noy Aerologicheskoy Observatorii, No 61, 1965, pp. 86-92.

JPRS 33679

Characteristics of Atmospheric Processes on Days With a Low Cloud Cover, by K. G. Abramovich.
RUSSIAN, per, Trudy Tsentral'nyy Institut
Prognozov, No 136, 1964, pp 12-26.
*FTD-TT-65-2034

Experience in Analysis of a Wind Velocity Hodograph in the Boundary Layer of the Atmosphere, by A. V. Tkachenko. RUSSIAN, per, Trudy. Ukr 4-I. Gidro-Moteorol. In-Ta., Vol 31 1962, pp 48-53.

Scientific
Earth Sciences & Astronomy (Contd)

Results of an Experimental Investigation of the Structural Characteristics of Air Flow in the Surface Boundary Layer of the Atmosphere, by N. M. Galadzhiy.
RUSSIAN, per, Trudy Ukrainskiy
Nauchno-Issledovatel*skiy Gidrometeorologicheskiy
Institut, No 41, 1964, pp 87-94.
*FTD-TT-65-z036

Oceamographic Investigations in Norwegian Sea According to the Program of IGY-IGC, by G. N. Zaytsev.
RUSSIAN, per, Trudy VNIRO, Vol XLVI, No 1, 1962, pp 6-13.
*Dept of Navy/NOO Tr 271

The Formation of Chemical Basis for Primary Production in Northern Seas, by M. V. Fedosov. RUSSIAN, per, Trudy VNIRO, Vol XLVI, No 1, 1962, pp 13-18.
*Dept of Navy/NOO Tr 272

Some Remarks on Water Exchange Through the Denmark Strait, by Ye. V. Solyankin. RUSSIAN, per, Trudy VNIRO, Vol XLVI, No 1, 1962, pp 64-67. *Dept of Navy/NOO Tr 273

Characteristics of Hydrochemical Regime of Denmark Strait, by Ye. A. A. Khmet'yeva. RUSSIAN, per, Trudy VNIRO, Vol XLVI, No 1, 1962, pp 68-73.
*Dept of Navy/NOO Tr 274

Some Hydrological Characteristics of the Denmark Strait, by Ye. V. Solyankin. RUSSIAN, per, Trudy VNIRO, Vol XLVI, No 1, 1962, pp 74-92.
*Dept of Navy/NOO Tr 275

New Data On Solar Activity and Its Influence on the Earth, by N. N. Gnyshev. FUSSIAN, per, Vest Akad Nauk SSSR, No 5, 1965, pp 67-71. NASA TT F-9691

Principal Characteristics of the Climate of the Virgin Lands Territory, by K. F. Zhirkov. 7p.
RUSSIAN, per, Vestnik Moskovkogo Universiteta, Seriya Geograficheskaya, No 4, Jul-Aug 1962, pp 15-21.
*CFSTI TT 66-51132

The International Year of the Quiet Sun, by B. I. Silkin, 15 pp. RUSSIAN, per, Zemlya i vselennaya, No 5, Sept-Oct 1965, pp. 11-16.
JPRS 33478

The Rift System of the Earth, by A. V. Il'in, 13 pp.
RUSSIAN, per, Zemlya i vselennaya, No 5,
Sept-Oct 1965, pp. 46-52.
JPRS 33478

What Is the Gulf Stream?, by A. D. Yampol'-skiy, 9 pp.
RUSSIAN, per, Zemlya i vselennaya, No 5,
Sept-Oct 1965, pp. 53-56.
JPRS 33478

Earthwork in Rural Construction - Chap. I, by V. I. Popov. 13 pp.
RUSSIAN, bk, Zemlyanye Raboty v Sel'skom
Stroitel'stve, 1956, p 3 to top of p 15 of
77-page handboo'.
*CFSTI TT 66-51124

Soils Unsaturated With Bases. Method of Determining Absorbed Hydrogen in Soils.
Soil Requirement of Lime as a Neutralizing Agent, by K. K. Gedroits. 26 p.
RUSSIAN, per, IN: Zhurnal Opytnoy Agronomii, Vol 22, No 1, 1921-1923, p 3-28.
*CFSTI TT 66-51135/4

News from the Bottom of the Ocean, 6 pp. RUSSIAN, per, Zemlya i vselennaya, No 5, Sept-Oct 1965, pp. 48-50.
JPRS 33478

A Statistical Study of the Relation Between Solar Flares and Magnetic Storms, by Jiang Bai-qin, CHINESE, per, Acta Geophysica Sinica, Vol IX, No 1, 1960, pp 38-46. 9698751

AF Cambridge Res Lab

Emmanuel College-EN4 65-9

Formation and Destruction of Thermal Wind in a Simple Baroclinic Atmosphere, by Chen Chu-shih, 50 p.
EMINESE, pr, Acta Meteorologica Sinica, Vol XXXIII, No 182, 1963, pp 51-63, 153-162. 9698748
AF Cambridge Res Lab
Emmanuel College - EMM 65-22

Scientific

Earth Sciences & Astronomy (Contd)

A Dynamic Model for the Numerical Prediction of Baroclinic Flows, by Chin Tseng-hao, 26 p. CHINESE, per, Acta Meteorologica Sinica, Vol XXXIII, No 2, 1963, pp 131-144. 9698747

AF Cambridge Res Lab

Emmanuel College-EMM 65-23

Problems of Atmospheric Probes, by Ku Chen-ch'ao (7357 7201 3390), 9 pp. CHINESE, per, K'o-hsueh T'ung-peo, No 8, Aug 1965, pp. 700-704.
JPRS 33486

The Hypothesis of the Origin of the Earth, by Fu Ch'eng-1 (0265 2110 5030), 6 pp. CHINESE, per, K'o-hsueh T'ung-pao, No 9, 20 Sept 1965, pp. 778-782.

JPRS 33605

The Age of the Earth, by Weng Wen-po (5040 2429 3134), 8 pp. CHINESE, per, K'o-hsueh T'ung-pao, No 9, 20 Sept 1965, pp. 783-787.

JPRS 33605

A New High-Temperature Polar Fixator - A Study of Fluorine Elastomers, by Chang Jen-en (1728 0088 1869), Ho Yu-chen (6320 3768 3791), Sha I-hsien (3097 6654 0103), 7 pp. CHINESE, per, K'o-hsueh T'ung-pao, No 9, 20 Sept 1965, pp. 805-807.

JPRS 33605

The Development of Oceanography, by Tseng Ch'eng-k'uei (2582 0701 1145) and Mao Han-li (3029 3352 4409), 13 pp. CHINESE, per, K'o-hsueh T'ung-pao, No 10, Oct 1965, pp. 876-883.

JPRS 33456

The Shanghai Observatory, by Li Heng (2621 3801) and Haou Hui-ch'eng (6760 1920 2052), 9 pp. CEINERS, per, T'ien-wen Ai-hao-che, No 10, 1965, pp. 1-3.

JPRS 33661

The Evaluation and Regionalisation of Matural Conditions of Overland Communication of China, by Yang Wu-yang (2799 0710 2254), 30 pp. CHINESE, per, Ti-li Haush-pao, Vol 30, No 4, Dec 1964, pp. 301-318.

JPRS 33436

Scientific

Earth Sciences & Astronomy (Contd)

Dense Planting and Microclimate, by Fu Pao-p'u (0265 2128 3877), 25 pp. CHINESE, per, <u>Ti-li Hsueh-pao</u>, Vol 30, No 4, Dec 1965, pp. 273-285.
JPRS 33436

The Slip-Off Slopes of Eastern Tsinghai Plateau, by Fan Hsi-p'eng (5400 6932 2590) and Wang Shou-nan (3076 1108 0589), 16 pp. CHINESE, per, <u>Ti-li Hsueh-pao</u>, Vol 30, No 4, 1964, pp. 320-329.

JPRS 33436

Saline Soil on Northern Kiangsu Coast, Its Features and Its Improvement, by T'ang Shuying (0781 3219 5391), 22 pp. CHINESE, per, T'u-jang Hsueh-pao, Vol 12, No 4, Dec 1964, pp. 421-430.

JPRS 33090

Aerial Soil Survey and Cartography -- Interpretation of Aerial Photos of the Hilly Region in the North of Sub-Tropical Red Loam Area. by Tai Ch'eng-ta (2071 2490 6671), Liu Hsingwen (0491 5281 2429) and Ts'ai Mou-te (5591 5399 1795), 15 pp.
CHINESE, per, T'u-jang Hsueh-pao, Vol 12, No 4, Dec 1964, pp. 442-449.
JPRS 33090

Ball Lightning, by V. A. Petrzilka CZECH, per, Ceskoslovensky Casopis Pro Fysiku, Vol XIV, No 6, 1964, pp 542-547. *FID-TT-65-2013

Crossing a Water Obstacle by Means of an Air-Vent Tank of the USSR, by R. Ziegler. GERMAN, per, Allgemeine Schweizerische Militarzeitschrift, No 3, 1965, pp 124-127. ACSI I-8613 ID 2204055365

Pleochroic Halos, by J. Steph van der Lingen. GERHAN, per, Centralbiatt f Mineralogie, Abt. A., 1926, pp 177-183. 9230551
AEC-ORNL-Tr-699

The Properties of Sea Waves in the North Atlantic Ocean, by Hans Walden, 18 pp. GERMAN, bk, die Eigenschaften der Meereswellen im Nordatlantischen Ozean, Hamburg, 1964, pp. 1-27.
Dept of Navy Tr 4417/NOO Tr 232

Scientific
Earth Sciences & Astronomy (Contd)

The First and Second Boundary Problem of the Linear Elasticity Theory for the Spherical Shell, by Werner Leutert.
GERMAN, rpt, Thesis Presented to the Zurich Confed Institute of Technology in Fulfillment of the Requirements for Doctor of Mathematics, 1948. 9230550
ARC-ORNL-Tr-712

Experience With Gyroscopic Measurements in Mines, by K. Neubert.
GERMAN, per, Vermessungstechnik, No 4, 1965, pp 145-148.
*ACSI I-8604
ID 2204054565

Decree on Supervision and Implementation of Geological Research, by Dr Gyorgy Kertai, 7 pp. HUMGARIAN, np., Akademiai Kozlony, No 13, 2 Oct 1965, pp. 128-130

JPRS 33342

Denaturation of Myosin-A Resulting From Freeze-Thawing, by N. Hamafusa.

JAPENESE, per, Teion Kagaku, Vol XXII,
Ser B. 1964, pp 119-130.

*AEC ORNL-Tr-1056
EDC Feb 10, 1966

Higher Geodesy, by Edward Warchalowski. POLISH, bk, Geodezja Wyzsza, 1965. OTS TT-61-11311

Soils of Kielce Voyevodship, by Michal Strzemski.

POLISH, per, Przeglad Geograficzny, Vol 26, 1954, pp 47-65.

*CFSTI TT 66-57015

The Soils of the Voivodeship of Cracow, by M. Strzemski.

POLISH, per, Przeglad Geograficzny, Vol 26, No 4, 1954, pp 54-97.

*CFSTI TT-66-57017

Geographic-Agricultural Problems in the Detailed Survey of Land Utilization in Poland, by Jerzy Kostrowicki.
POLISH, per, Przeglad Geograficzny, Vol 31, No 3, 1960, pp 227-279.
*CFSTI TT-66-57012

Scientific
Earth Sciences & Astronomy (Contd)

Temperature and Moisture Dynamics in Brown and Pseudo-podzolic Soils of the Warsaw Environs with Consideration of Irrigated Light Soils, by Arkadiusz Musierowicz. POLISH, per, Roczniki Gleboznawcze, Vol 13, 1963, pp 17-31.
*CFSTI TT-66-57014

Water-Air Conditions in Soil of the Middle Climatic Zone of Poland, by Halina Krol. POLISH, per, Roczniki Gleboznawcze, Vol 13, 1963, pp 110-137.
*CFSTI TT-66-57013

Soils of Warsaw Province, by A. Musierowicz. POLISH, per, Roczniki Nauk Rolniczych, Vol 75-D, pp 5-238, 1956.
*CFSTI TT-66-57016

Through am Evil Cloud, by J. Magnuski. POLISH, per, Zolnierz Polski, Vol XXVII, (892), Feb 1965.
*ACSI I-8626
ID 2204055465

Unmanned Stations on the Moon, by D. Andreescu, 11 pp.
RUMANIAN, per, Stiinta si Tehnica, No 3, 1963, pp 24-26. 9699064
FTD-TT-65-1156

Electronics

Automatic Operational Management of Processes of Production, by A. B. Chelyustkin, RUSSIAN, bk, Avtomaticheskoye Operativnoye Upravleniye Proizvodstvennymi Protessami, 1965, 247 pp.
*JPRS/NY-13102

Automatic Control of Power of Hydroelectric Stations by Current Flow, by V. A. Bogomolov, 101 pp. RUSSIAN, bk, Avotomaticheskoye Regulirovaniye Hoshchnosti Gidrostantsiy po Bodotoky, Moscow, 1950, 107 pp. 9699038-V FTD-TT-65-1153 Scientific
Electronics (Contd)

Simulation of Information Processing in a Neuron, by I. A. Lyubinskiy and N. V. Pozin, 12 pp.

RUSSIAN, per, Avtomatika i telemekhanika, Vol 26, No 10, Oct 1964, pp. 1746-1756.

JPRS 33440

Ferrite Material for Centimeter Wavelengths, by I. I. Sil'vestrovich.

RUSSIAN, per, Byull Izorbreteny i

Tovarnykh Znakov, No 12, 1964, p 1.

*ACSI I-8624

ID 2204056565

Electric Battery Plateform Truck ESH-182, by M. P. Golovkin, 2 p. RUSSIAN, per, Byulleten Tekhniko-Ekonomicheskoy Informatsii, No 2, 1965, pp 55-56. *ACSI I-9195 ID 22040049 66

INP-GAAS System (USSR), by N. N. Sirota. RUSSIAN, per, Doklady Ak Nauk BSSR, Vol. 7, No 4, 1963, pp 230-232. *FTD-TT-65-2000

Electric Conductivity and the Width of the Forbidden Zone in Solid Solutions of Indium Phosphide-Gallium Arsenide Semi-Conductor, by N. N. Sirota.

RUSSIAN, per, Doklady Ak Nauk BSSR, Vol 8, No 10, 1964, pp 632-633.

*FTD-TT-65-1999

Analysis of a Single-Pulse Laser With Instantaneous Q-Switching, by A. M. Samson. RUSSIAN, per, <u>Doklady Ak Nauk BSSR</u>, Vol 9, No 1, 1965, pp 22-26.
*FTD-TT-65-2001

Detection of Radio Emission of the Excited Hydrogen Line in the NGC 6618 (OMEGA) Nebula, by R. L. Sorochenko, E. V. Borozdich.
RUSSIAN, per, Dokl Akad Nauk SSSR, Vol CLXIII, No 3, 1965, pp 603-605.
NASA TT F-9698

Radio Emission of Saturn in 8 mm Wavelength, by V. G. Kutuza, et al. RUSSIAN, per, Dok Akad Nauk SSSR Vol CLXI, No 6, 1965, pp 1301-1302. NASA TT F-9690

Stimulated Emission From an Optically Pumped GAAS Laser, by N. G. Basov. RUSSIAN, per, Doklady Ak Nauk SSSR, Vol 161, No 6, 1965, pp 1306-1307. *FTD-TT-65-2011

Radar Observations of Venus in the Soviet Union in 1964, by V. A. Kotel nikov, et al. RUSSIAN, per, Dok1 Akad Nauk SSSR, Vol CLXIII, No 1, 1965, pp 50-53.
NASA TT F-9693

Magnetic Bremstrahlung in a Variable Field as the Mechanism Behind the Changing Radiance of Quasistellar Radio Sources, by L. M. Ozernoy. RUSSIAN, per, Dokl Akad Nauk SSSR, Vol CLXIII, No 1, 1965, pp 54-57. NASA TT F-9694

Calculation of Processes Caused by the Introduction of Ice Crystals into Supercooled Small-Drop Clouds, by S. L. Lebedev, 8 pp. RUSSIAN, per, Doklady Akademii Nauk SSSR, Vol. 164, No 4, 1 Oct 1965, pp. 796-799.

JPRS 33211

Low-Inductance Capacitors, by V. V. Konotop, V. Ya. Linetskiy, et al. RUSSIAN, per, <u>Elektrotekh</u>, No 1, 1965, pp 23-26. 9231691 UCRL Tr 1273(L)

Measurement of Losses in Naveguides, by A. B. Dogadkin, 8 p. RUSSIAN, per, Electrosvyaz', No 11, 1964, pp 27-32. ACSI I-8727 ID 22040585 65

Spectrum of Innerent Noise and Spread of the Amplification Factor in Multi-Stage Image Converters, by D. A. Demidov, G. E. Smolkin, et al.

RUSSIAN, rpt IAE-617, 1964, 16 pp. 9230538
AEC-Tr-6564

Determination of Electrical Properties of Rocks from the Damping of Radio Waves, by A. G. Tarkhov, 14 p. RUSSIAN, per, Izvestiya Akademii Nauk SSSR, No 5, 1956, 10 pgs, ACSI I-8401 ID 22040460 65

Scientific Electronics (Contd)

/36

Determination of a Variable Electric Field in a Sratified Medium, by A. N. Tikhonov, G. V. Mikhina, 17 p.
RUSSIAN, per, Izvestiya Akademii SSSR, Seriya Georaficheskaya i Geofizicheskaya, Vol XIV, No 2, 1950.
ACSI I-8418
ID 22040 77 65

Certain Problems of the Dynamics of Escapement Regulators Without Natural Oscillation of the Balance Wheel, by Kul'kov.

RUSSIAN, per, Izvestiya VUZ -Priborostroenie, No 5, 1960, pp 95-105.

*ACSI I-9182
ID 2204003666

An Average and Finite Pulse Parameters in Pin Type Excapements, by Kulkov, 10 p. RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy-Priborostroyeniye, No 2, 1961, Mar-Apr, pp 101=110.
*ACSI I-9184
ID 22040038 66

To the Question of Calculating Thermal Compensation in Oscillatory Circuits, by Vishnevskiy.
RUSSIAN, per, Iz VUZ, Priboros, No 3, 1961, pp 11-18.
ACSI I-9185
ID 2204003966

Stabilization of the Oscillation Period of the Balance Wheel in an Escapement Type Governor with a New Type of Non-Free Movement, by Aksel'rod.
RUSSIAN, per, Iz VUZ, Priboros, No 3, 1961, pp 83-94.
ACSI I-9185
ID 2204003966

On the Development of Automated Systems of Production Control, by I. K. Petrov. RUSSIAN, per. Mekhanizatsiya i Avtomat Prorvodstiva, No 5, Nay 1965, pp 1-4.

*ACSI I-8606
ID 2204054865

New Bulgarian Electric Loaders, by Z. Georgiyev, G. Stoilov. RUSSIAN, per, Nekh i Avto Prorvod, No S, Nay 1965, pp 47-50. *ACSI I-8606 ID 2204054865

Reliability of Speed Control Relays, by V. E. Ginzburg, 6 p. RUSSIAN, er, Mikhanizatsiya i Avtomalizatsiya Proizvodstva, No 1, 1964, pp 39-40. ACSI I-8615 ID 28040556 65

Detonation of Pressure of Shockwave Entering a Liquid, by A. G. Bagdoyev, 13 pp. RUSSIAN, rpt, News of the Academy of Sciences of the Armenian Soviet Socialist Republic, XVII, No 5, 1964. Dept of Navy 4370/CNI Tr 2020

The Calculation of the Two-Dimensional Energy Spectrum According to Stereo Photographic Data, by G. V. Matushevskiy, S. S. Strekalov, 12 pp.
RUSSIAN, per, Okeanolog, Vol III, No 5, pp 840-847.
Dept of Navy Tr 4418/NOO Tr 234

Equipment with the Operation of Electric Loaders; Experiment With the Mechanization of Loading and Unloading at Points Adjoining Various Gauged Railroads. 24 pp. RUSSIAN, bk, Opyt Zkspluatatsii Zlektropogruzchikov; Opyt Mekhanizatsii Pogruzochno-Razgruzochnykh Rabot V Punktakh Primykaniya Putei Razlichnoi Kolei. 1964.

ACSI I-7898
ID 2204042165

Radiochemical Processes Taking Place During Radiolysis of Carbontetrafluorides, by V. A. Khramchenkov.
RUSSIAN, per, Physical Chemistry, 1964. 9231686
AEC-BNL-Tr-23

Principles of Automatic Control and Remote Control Third Edition, by S. A. Ginzburg, Lekhtman Izrail Yakovlevich. RUSSIAN, rpt, 1965. *FTD-MT-65-589

Obtaining a Loy-Magnitude Diagram in a Radio-Pulse Amplifier By Athodic Detection, by V. M. Volkov.

RUSSIAN, per, Radiotekhnika, Vol XIX, No 11, 1964, pp 37-41.

*ACSI I-8751

ID 2204061065

Scientific
Electronics (Contd)

Conditions Affecting the Resolving Power of Radio Telescopes and Radio Interferometers, by N. L. Kaydanovskiy and N. A. Smirnova, 16 pp.
RUSSIAN, per, Radiotekanika 1 Klektronika
Vol. I, No 9, Sep 1965, pp 1574-1582.
JPRS 33,088

A Direct Current Motor With No Contacts and a Transistor Commutator, by N. I. Lebedev, I. Ye. Ovchinnikov.
RUSSIAN, per, Sbornik Rabot Po Veprosam
Elektromekhaniki an SSSR Institut Elektromekhaniki
No 9, 1963, pp 131-145.
*FTD-TT-65-2035

The Use of Static Electronic Charges and Electromagnetic Fields for Imparting Draft to Fibrous Materials, by P. D. Balyasov. RUSSIAN, per, Tekstil'naya Promyshlennost, Vol 22, No 9, 1962, pp 47-51. *CFSTI TT 66-51138

Electronic Model of Self-Adaptive and Self-Teaching Systems, by O. A. Charkviani, D. K. Surguladze, 52 pp.
RUSSIAN, per, Trudy Inst Elektroniki, Avtomatiki i Telemekh, Ak Nauk GruzSSSR, Vol III, 1962, pp 3-33. 9698782
FTD-TT-65-140

Solid-Phase Instruments -- The basis of Molectronics, by G. P. Agibalov. RUSSIAN, per, Trudy Sibirsk Fiz-Tekhn In-Ta Pri Tomskom Un-Te, No 44, 1964, pp 37-64.
*FTD-MT-65-591

The Theory of the Optical Method for the Investigation of Atmospheric Aerosols, by K. S. Shifrin, V. F. Raskin, 12 p. RUSSIAN, per, Trudy Soveshchaniya Gid::ometeoizdat, Vol IX, 1963, pp 253-260.

ACSI I-8601
ID 22040542 65

Physical Interpretation of the Process of Stabilization of the Current Phase in a Transmitter Antenna by Means of a Complex Feedback, by I. A. Veselkov, V. N. Grishko. Rigian, per, Trudy Tomskogo Inst Radicelek i Elektron Tekhn, Vol I, 1963, pp 24-26.

Economic Efficacy of Increasing the Reliability of Repeated-Action Electronic System Elements, by N. B. Sutorikhin.
RUSSIAN, per, Trudy Uchebn. In-tov Syyazi, M-Vo Syyazi SSSR, No 20, 1964, pp 194-200.
*FTD-TT-65-2049

Apparatus for Study of the Statistical Characteristics of a Radar Echo, by A. G. Gorelik.
RUSSIAN, per, Trudy Vesesoy Nauch Meteorolog Sovesh, Vol IX, 1963, pp 161-166.
*ACSI I-8600
ID 2204054165

New Studies on Automatic Control, by O. I. Aven, 5 pp. RUSSIAN, per, Vest Ak Nauk SSSR, No 2, 1964, pp 44-46. 9698772 FTD-TT-65-483

New Methods and Processes of Electrotechnology, by V. I. Popkov, 36 p. RUSSIAN, per, Vestnik Akademii Nauk SSSR, USSR Academy of Sciences Journal, No 1, Jan 1965, pp 18-41. ACSI I-7858 ID 22040381 65

Optimum Energy Flights Taking into Account the Effect of Light Pressure, by S. N. Kirpichnikov.
RUSSIAN, per, Vestn Leningr Univ Ser Mat Mekhan i Astron, No 2, 1965, pp 144-156.
NASA TT F-9656

Mothod for the Photogrammetric Mapping of Waves from a Ship and a Device for the Development of Photos Obtained by this New Method, by N. V. Khokhlovskiy, V. A. Dubovich, et al. MUSSIAN, Patent No 159297.
*FTD-TT-65-2028

Parametric Band Pass Filter. RUSSIAN, Patent No 168529. *FTD-TT-65-2027 Scientific
Electronics (Contd)

The Practical Plan of Instruction for the 1965 Officers Electronic Course at The Army Engineer School, 60 pp.
CHINESE, rpt, July 1964.
ACSI I-7833-B
ID 2204037165

The Practical Plan of Instruction for the 1965 Non-Commissioned Officers Electronics Course at the Army Engineer School, 17 pp. CHINESE, rpt, July 1964.
ACSI 1-7833A
ID 2204037165

A Simple Electromagnetic Resonance Spectrometer, by Hsu Kuang-chih, Huang Shou-ling. CHINESE, per, Hua Hsueh Hsueh Pao, Vol XXIX, No 4, 1963, pp 373-378.
*FTD-TT-65-2010

Photo-Electric Tracing Cutter, by Ku Yueh (7357 1471), 5 pp. CHINESE, per, K'o-hsueh Ta'chung, No 10, Oct 1965, pp. 342-343.
JPRS 33433

Substitution & Interchange of Electronic Tubes for Radio Receivers, by Su Hua, 12 pp. CHINESE, per, Mu-hsien-tien, No 9, 12 Sep 1965, pp 15-17 & 9

JPRS 33348

Some Design Problems of Integrated Circuits, by Chu Chien, 9 pp.
CHINESE, per, Wu-haien-tiem Chi-shu, No 2, Feb
1965, pp 1 - 5, and 19.
JPRS 33426

Lecture #4: Long Distance Survey by Time Measurement Method, 9 pp. CHINESE, per, Wu-haien-tien Chi-shu, No 2, Feb 1965, pp 27-31.
JPRS 33426

Hicrowave Ultrasonics, by Tu Lien-yao.

GHNESE, per, Mu Li T'ung Pao, No 9, 1964, pp 385-395.

*FTD-TT-65-2012

Band-Pass Filters With Non-Concentrated Resistance and Capacitance, by J. Novakova, M. Novak. CZECH, per, Slaboproudy Obzor, No 3, 1965, pp 166-172. *ACSI I-8853C ID 2204064565

Log-Periodic Antennas For Short Wave Applications, by L. Jerabek. CZECH, per, Slaboproudy Obzor, No 4, 1964, pp 193-201. *ACSI I-8498C ID 2204050565

New Ring Counter With Tunnel Diodes by V. Spany. CZECH, per, Slaboproudy Obzor, No 4, 1964, pp 216-218. *ACSI I-8498D ID 2204050565

The Properties of a Czechoslovak Made Output Travelling Wave Tube 31 SE I, by J. Horna.

CZECH, per, Slabouproudy Obzor, No 4, 1964, pp 186-192.

*ACSI I-8498B
ID 2204050565

New Method of Measuring Current Gain and Cut-Off Frequency of Transistors, by J. Hrycej, S. Vojtasek. CZECH, per, Slaboproudy Obzer, No 3, 1965, pp 129-138. *ACSI I-8853A ID 2204064565

Internal Resistance of Capacitors and Discharge Tubes for Quantum Light Generators, by Dusan Vavroch, Miroslav Rubes. CZECH, per, Slaboproudy Obsor, No 4, 1965. 969835 FSTC 381-T65-419 I-7775 ID 2204033965

1500-Subscriber Rural Exchanges with Electronic Circuits, by A. Ortrad, 26 pp. DANISH, per, Ingeniren, No 17, 1 Sept 1965, pp 544-551. DIA LN 244-65 scientific
Electronics (Contd)

Measuring the Projectile Velocity in the Barrel of a Gun and Just Past the Muzzle by Means of doppler Radar, 84 pp. DUTCH, rpt, Snelheidsmeting sam Projektielen in en Direkt Bulten een Kanon met Behulp van Dopplerradar, Part XA, Chapter 5-C-1, RVR 155/63.08 138 pp. ACSI I-7975 ID 2204043665

Trans-Equatorial Communications Agency (A.T.E.C.), 17 pp.
FRENCH, rpt, 12 Oct 1964, IR 2820018464
DIA IN 180-65
ID 2820018464

Electrical Tests on the Heating Core, by J. Bellet, M. Grand. FRENCH, rpt, Euratom Association - CEA PNR/SEPR/65.001/JB/MJ, 1965. *AEC ORNL-TR-1068 EDC Feb 14, 1966

Study of Hot-Point Application to the Rapsodie Core, by J. Skok. FRENCH, rpt, CEA Association Euratom, PNR/SEPR-65-106/JS, 1965.
*AEC ORNL-TR-1069
EDC Feb 14, 1966

Study of Fluctuations in a Photomultiplier, by G. Pfeffer, D. Jeanselme.
FRENCH, per, L'Onde Electrique, Vol XLIV, No 446, 1964, pp 476-478.
*AEC ORNI-Tr 1052
EDC Feb 12, 1966

Electron Probe Microanalyzer: Study of the Fluorescence Exhited by Continuous Radiation, by J. Henoc, et al. FRENCH, rpt Rapport du Commissariat a l'Energie Atomique, Centre d'Etudes Nucleaires de Saclay, NASA TT F-9550

Improvements Relating to Insulated Electrical Conductors, by Heny Charles Braum, 11 p. FRENCH, pat, Patent No 553,448.
Dept of Commerce Patent Office

Optical and Electron Microscopic Investigations on the Direct and Indirect Effect of Radiation Upon Chicken Embryos, by R. Danneel, E. Wendt, GERMAN, per, Atompraxis, Vol 10, No 9/10 1964, pp 434-436.
*AEC
EDC Jan 30, 1966

Technological Influences on the Characteristic Values of a Transistor, by E. Fischer.
GERMAN, per, Feingerate Technik, No 5, 1965, pp 233-238.
*ACSI I-8729
ID 2204058765

Estimation of Heating of Plasma by Lasers, by H. Hora.
GERMAN, rpt, Institut fur Plasmaphysik, IPP/6/23, 1964, 14 pp. 9230575
AEC-TT-1193

Pressure Tube Power Reactors, 'Summary Report', by G. Ackermann, 47 pp. GERMAN, rpt, Kernenergie, Vol VII, No 8, 1964, pp 577-603.
Dept of Navy 4367-a/ONI Tr 2016

Functioning and Operation of the B 13 S 11 Viewing Storage Tube, by L. Rost. 11 pp.
GERMAN, per, Nachrichtentechnik, No 5, 1965.
ACSI I-9017D
ID 2204067465

Electronic solid State Circuit Elements, Part V, by W. Hartmann.12 pp GERMAN, per, Nachrichtentechnik, No 5, 1965, pp 177-178; 183-185. ACSI I-9017A ID 2204067465

An Instrumentation Procedure for Direct Indication of the Noise Factor of Low Frequency Transistors, by R. Kostner. 8 pp GERMAN, per, Nachrichtentechnik, No 5, 1965, pp 186-188.

ACSI I-9017B
ID 2204067465

Scientific Electronics (Contd)

On the Equivalent Sound Pressure of Condenser Microphones in High Frequency Circuits, by G. Kaszynski. 13 pp. GERMAN, per, Nachrichtentechnik, No 5, 1965, pp 189-193. ACSI I-9017C ID 2204067465

Mobility of "Hot" Electrons and Their Effect on the Rise Time of a N-Silicon Semiconductor Counter, by 0. Meyer, H. J. Langmann.
GERMAN, per, Nuclear Instruments and Methods, Vol XXXIV, 1965, pp 77-87.
**AEC ORNL-Tr-1051
EDC Feb 10, 1966

Resolving Time Properties of NaI Scintillators, by J. Braumsfurth, H. J. Korner. GERMAN, per, Nuclear Instruments and Methods, Vol XXXIV, 1965, pp 202-212.

9231664
AEC-ORNL-Tr-838

Saturated Photocurrents in CdS Single Crystals, by H. Kiess.
GERMAN, per, Physica Status Solidi, Vol IV, 1964, pp 107-116. 9231638
AEC-SC-T-65-762

Interpretation of Electron-Nicroscopic Contrast Phenomena in Vacancy Agglomerates of Neutron-Irradiated Copper, by M. Ruchle, et al. GERMAN, per, Phys Status Solide, Vol XI, 1965, p 819. *AEC EDC Feb 15, 1966

"BROCKEN 1" Signal Monitoring Set (SBK 1).
GERMAN, bk, Signal-Kontrollgerat "BROKEN 1",
4 May 1965.
*ACSI I-8961

High Frequency Powered Machine Tool, 12 pp. GERMAN, per, Werkzengmotoren, 1963. ACSI 1-7322 ID 2204021665

Interference Free DC Current Reception with the Ocillating Detector, by H. G. Moller. GERMAN, rpt, Z fur Drahtlose Telegraphie und Telephone So. des Gesamigebietes der Hocherequenz-Technik-Jahrbuch, 1921, pp 256-287.

*ACSI I-9289
ID 2204010466

Three-dimensional Wave Energy Direction Finding Apparatus, 9 p. GERMAN, pat, Patent No 566,823. Dept of Commerce Patent Office

Circuit Arrangement for Control of Selectors in Remote Selection Telephone Systems, comprising Selection Delay Devices Combined with Centralized Auxiliary Repeaters, 16 p. ITALIAN, pat, Patent No 511,764. Dept of Commerce Patent Office

Radiowave Forecast, No 223, JAPANESE, rpt, August 1965, Tokyo, Japan, pp 1, 2, 10. DIA LN 155-65 ID 2852022165

Electricity and Gas, by Hatano, Tadashi, 26 p.
JAPANESE, per, Chukyo no damu o Tazunete, Vol XV, No 6, June, 1965.
Army Map Service

On the Free Lateral Vibration of a Beam with Variable Cross Section, by Takahiko Kawai, et al, 14 pp.

JAPANESE, rpt, National Aeronautical Laboratory TR-22, Feb 1962.

Dept of Navy 4366/ONI Tr 2014

From Radioscopy to Quantum Electronics, by A. Piekara.

POLISH, per, Nauka Polska, No 4, 1964, pp 176-181.

*FTD=TT-65-2009

Scientific
Electronics (Contd)

-71

Some Possibilities of Neasuring the Electrical Parameters of Plasma Using Microwaves, by Z. Zakrzewski.
POLISH, per, Polska Akademia Nauk Instytut Maszyn Przeplywowych, Prace, No 21, 1964, pp 3-22.
*FTD-TT-65-2033.

Positioning of a V.H.F. Radio Station for Deployment, and the Choice of Aerial, by Henryk Bogdanowicz, 119pp. POLISH, per, Przeglad Wojsk Ladowych, No 2, Feb 1965, DIA LN 295 F ID 2878019365

Statistical Properties of Monopulse
Amplitude Type Radar System, by
J. Kulikowski,
POLISH, per, Przemyslowy Instytut Telekommikacji,
Prace, Vol XIII, No 41, pp 1-7, 1963.
*FTD-TT-65-2030

Radar Slot Antenna, by R. Jurkiewica, POLISH, per, Przemyslowy Instytut Telekomunikacji, Pracc, Vol XIV, No 45, 1964, pp 65-66.
*FTD-TT-65-2031

Fuzes, by Boguslaw J. Witkowski.
POLISH, per, Zolnierz Polski, No 50,
1964, p 13.
*ACSI I-8437
ID 2204049665

Gauchos Will Get a Microwave Network to Avoid Delay, 5 pp. PORTUGUESE, per, Visco, No 12, 26 Mar 1965, p 44. DIA LN 173-65

Planar Solid State Inductances, by H. Draganescow. RUNANIAN, per, <u>Telecommunicatii</u>, No 3, 196S, ACSI I-8397 ID 220404576S

Electroluminescence, by O. Vamek, SLOVAK, per, <u>Slaboprproudy Obsor</u>, No 3, 1965, p 121. *ACSI I-8853 E ID 2204064565

National Telephone Plan, 11 pp. SPANISH, rpt, Montevideo, Uruguay 1964, DIA LN 164-65

Cantv, National Venezuelan Telephone
Co., Inc. by Cantv.
SPANISH, rpt, Cantv Compania anonima Nacional
Telefonos de Venezuela,
DIA LN 297-65
ID 1902018965

Engineering

Effective Utilization of Berthing Installations During Reconstruction, by G. M. Gidal', 138 pp.
RUSSIAN, rpt, Moscow, 1964,
DIA IN 124-65
ID 22181526-65

Dermatome - Model 205, 15 pp.
RUSSIAN, rpt, Brochure 3252, RSFSR
Leningradskiy Sovet Narodnogo Khozyaystva
Upravleniye Agregatostroyeniya i
Priborostroyeniya, 1965. 9698771
FTD-TT-65-1561

Tables of Gas Dynamic Functions of Initial Stage of Point Explosion, by V. P. Korobeynikov, P. N. Chuskin, 11 pp. RUSSIAN, xpt, Communications of Computing Mathematics, Acad of Sci, USSR Computing Center, No 2, 1963.
Dept of Navy 4369/CNI Tr 2018

Shallow Cylindrical Shell Under the Action of Tangentical Concentrated Forces, by V. P. Shevchenko.
RUSSIAN, per, Dopovidi Akad Nauk
UKR RSR, No. 7, 1965, pp 864-867.
*AEC ORNL-Tr-1019
EDC Feb 10, 1966

Scientific
Engineering (Contd)

Effective Utilization of Berthing
Installations During Reconstruction,
by G. M. Gidal'
RUSSIAN, rpt, Effektivnoye Ispol'zovaniye
Prichal'nykh Sooruzheniy Pri Rekonstruktsii,
1964.
DIA IN 124-65
ID 2218152665-V

Flow-Line Production Methods: The Basis of Power-Plant Construction, by A. I. Drobyshev and A. M. Nekrasov, 14 pp. RUSSIAN, per, <u>Elektricheskiye Stantsii</u>, No 10, Oct 1965, pp. 2-18.

JPRS 33695

Stability of Parallel Work of Centrifugal Pumps, by Ye. L. Shifrin, V. A. Garkavi, 13 pp. RUSSIAN, per, Energomashin, No 7, 1964, pp 8-11. 9698783 FTD-TT-65-938

The BMZ, 35550 HP Gas Turbine, by Ye. M. Drokonov, O. N. Alekseyev, 11 pp.
RUSSIAN, per, Energomashin, No 7, 1964, pp 23-25. 9698783
FTD-TT-65-938

Effect of the Radial Temperature Gradient on Blade Twist in Axial-Flow Turbines, by Yu. I. Mityushkin, 8 pp. RUE. IAN, per, Energomashin, No 7, 1964, pp 26-28. 9698783 FTD-TT-65-938

On the Appearance of Combustion Phenomena as a Result of Obstruction of a Supersonic Gas Stream by a Solid Body, by I. M. Naboko. RUSSIAN, per, Gasodinamica i Teploobmem, 1961, pp 42-45. *FTD-TT-65-1987

On the Problem of the Exclusion of Errors Conditioned by Run, by N. A. Kutserub.
RUSSIAN, per, Geodexiya i Karto, Hay 1964, pp 16-17.
*ACSI I-8748
ID 2204066465

Engineering Seismology. 6 pp.
RUSSIAN, bk, <u>Inzhenernaya Seysmologiya</u>,
1962.
ACSI I-6837
ID 2204011765

Limitations of the Applicability of Methods Based on the Reynolds Analogy for the Flow of Gas in Pipes, by M. M. Nazarchuk, 5 p. RUSSIAN, per, <u>Inzhenerno-Fizicheskiy Zhurnal</u>, Vol VIII, No 6, 1965, pp 720-724. *FTD-TT-65-2023

Manufacturing and Application of Plastic in Construction: Inclosure to 2218284065, 11 May 65, by E. M. Smorodin, I. I. Kokanov. RUSSIAN, rpt, Izgotovlyeniye I Primyenyeniye Plastmass V Stroityelstvey, 1965, 24p.

ACSI I-8422
ID 2218284065

Lyapunov*s Method of Investigating the Stability of Motion of Rigid Bodies with Liquid-Filled Cavities, by V. V. Rumyantsev.

R. SSIAN, 1-1, Iz Ak Nauk, Mekh i Mashinos, No 6, 1963. 9698871

DDC RSIC-473

The National Council of Cartographers of the Ussr (NSK) and International Cooperation by Soviet Cartographers, by A. P. Polezhayev. 6 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograficheskaya
No 3, 1965, pp 122-125.
ACSI I-7843A
ID 2204037265

More Accurate Solution of the Problem of Deflection of a Flexible Square Plate Hinged along its Edges and Under a Normal Loading, by G. V. Zakirov.

RUSSIAN, per, Iz VUZ, Aviat Tekh, No 1, 1959, pp 28-31.

*FTD-TT-65-2020

Experimental Verification of Theoretical Methods of Stress Analysis, by L. A. Kolesnikov.
RUSSIAN, per, <u>Iz VUZ</u>, <u>Aviat Tekh</u>, No 3, 1962, pp 87-97.
*FTD-TT-65-2021

Scientific
Engineering (Contd)

Experimental Investigation of the Effect of Impact Loading on a Clockwork Nechanism, by Isayev.

RUSSIAN, per, Iz VUZ, Priboros, No 5, 1960, pp 88-94.

*ACSI 1-9181
ID 2204003566

Experimental Investigation of the Effect of Vibrations on the Friction in the cyclindrical Bearings of a Watch balance staff, by Isauev, 8 p.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy-Priborostroenie, No 4, 1961, July-Aug, pp 101-108.
*ACSI I-9186
ID 22040040 66

Fiberglass Filters for the Removal of Sulfuric Acid Fog, by E. E. Yashke, A. G. Amelin, et al. RUSSIAN, per, Khim Prom, No 3, 1965, pp 196-200. 9231643 AEC-ORNL-Tr-744

Unit for Manufacture of Footwear Bottoms, by V. Gorbanev. RUSSIAN, per, Kozhevenno-Obuvnaya Prom, No 9, 1964, p 22. *ACSI I-8937B ID 2204066465

Optimum Regimes of Magnitogasdynamic Flows in Channels with Hall Effect, by Ye. N. Zelichenko, T. Ye. Milleryan. RUSSIAN, per, Magnitnaya Gidrodinamika, No 1, 1965, pp 67-72.
*FTD-TT-65-2029

Non-Acoustic Methods of Submarine Detection, by A. L. Prostakov, 10 pp. RUSSIAN, per, Morskoy sbornik, No 7, 1965, pp. 73-79. JPRS 33620

Vibration Isolation of Marine Machinery, by N. V. Kapuntin, 10 pp. RUSSIAN, per, Morskoy sbornik, No 11, 1965, pp. 71-77.
JPRS 33532

The Problem of Creating a Unit-Type Centralized Production Control System (UTCS), by B. M. Yakobson, 11 pp. RUSSIAN, per, Priborostroyeniye, No 9, Sept 1965, pp. 1-4.
JPRS 33521

Reduction of Stress Concentration in a Plate of Unlimited Dimensions With Angular Notches, by D. L. Chernyavskiy. RUSSIAN, per, Prikladnaya Mekhanika, Otdeleniye Matematiki, Mekhaniki, i Kibernetiki, Akademii Nauk UkrSSR, Vol 1, No 2, 1965, pp 134-138, 9230083

Water Engines, by O. Orekhov; On Land and Water, by P. Brukhal', 5 p. RUSSIAN, per, Starshina-Serzhant, No 3, 1965. ACSI I-8407
ID 220404 66 65

The Effects of Cavitation on the Magnitude of the Intermittent Forces Transferred to a Ship's Hull by a Screw Propeller As it Operates, by N. N. Babayev, and V. G. Lentyakov, 12 pp. RUSSIAN, per, Sudostroyeniye, No 5, May 1957, pp. 26-30.

JPRS 33475

On the Problem of Determining the Moment That Cavitation of a Screw Propeller Sets In, by S. V. Kulikov, 9 pp. RUSSIAN, per, <u>Sudostroyeniye</u>, No 5, May 1958, pp. 12-15. JPRS 33473

Approximate Determination of the Pitch of a Screw Propeller, by B. G. Grigor'yev, 6 pp. RUSSIAN, per, Sudostroyeniye, No 8, Aug 1959, pp. 51-52.

JPRS 33472

On the Problem of Quality Control of the Geometrical Elements of Screw Propellers in Production, by F. M. Katsman and G. M. Muzykantov, 11 pp.
RUSSIAN, per, <u>Sudostroyeniye</u>, No 2, Feb 1965, pp. 10-15.
JPRS 33471

Scientific Engineering (Contd)

Production Methods of Measuring Screw Propeller Pitch, by F. M. Katsman and G. M. Kudrevatyy, 11 pp. RUSSIAN, per, Sudostroyeniye, No 3, March 1957, pp. 47-51.

JPRS 33232

Determination of Periodic Forces and Moments on a Screw Propeller, by Dr I. Ya. Miniovich, 8 pp. RUBSIAN, per, <u>Sudostroyeniye</u>, No 4, Apr 1962, pp 10-12. JPRS 33,130

Plotting the Performance Curves of a Screw Propeller by Means of Digital Computers, by F. M. Katsman and V. I. Asinovskiy, 11 pp. RUBSIAN, per, <u>Budostroyeniye</u>, No 5, May 1963, pp 9-12.

JPRS 33,131.

Wave Method for Calculating Impulse Loading of Turbine Blades, by A. A. Moiseyev, 2 p. RUSSIAN, per, Sudostroyeniye, No 11, 1964, pp 33-34.
*FTD-TT-65-1990

Mathematical Modeling of a Gas Turbine Using Real Fuel Supply Equipment, by I. Yu. Lur'ye, 3 p. RUSSIAN, per, Sudostroyeniye, No 12, 1964, pp 24-26.
*FTD-TT-65-1989

Free Piston Gas Generator with Outlet and Inlet Regulation for Gas Turbines, by V. I. Val'kov, 4 p. RUSSIAN, per, Sudostroyeniye, No 12, 1964, pp 26-28.
*FTD-TT-65-1989

The Use of Optically Active Lagers for the Solution of Plane Elastic Plastic Problems, by A. F. Nozhanskaya, A. P. Fedorov, et al, 3 p.
RUSSIAN, per, Sudostroyeniye, No 1, 1965, pp 21-23.
*FTD-TT-65-1991

On the Problem of Selecting Placement of Screw Propellers in Multi-Shaft Ships, by Yu. F. Ryabkov, 7 pp. RUSSIAN, per, Sudostroyeniye, No 6, Jun 1965, pp. 17-19.
JPRS 33474

Induced Vibrations of Ships' Plates under the Effect of the Hydrodynamic Pressures Caused by Screw Propellers in Operation, by G. I. Fedenko, 6 pp.
RUSSIAN, per, <u>Sudostroyeniye</u>, No 7, Jul 1965, pp. 15-17.
JPRS 33476

Highly Elevated Chariots and Elevators, FRENCI, per, Technical Information, No 2, 1965, pp 36-39. *ACSI I-8757
ID 2204000566

Study of the Friction Zones in Drafting Devices, by I. A. Samoilov. 5 p. RUSSIAN, per, <u>Tekstil'naia Promyshlennost</u>, Vol 20, No 7, <u>1960</u>, pp 22-26. *CFSTI TT 66-51140

Nonlinear Problems of Stress Concentration Near Holes in Plates, by G. N. Savin. RUSSIAN, rpt, Teoriya Obolochek i Plastin, Tr IV Vses Konf. Po Teorii Obolchek i Plastin, 116-40, Yerevan, 24-31 October, 1962, Izdatel'stvo Akad NaukASSR, Yerevan, 1964. NASA TT F-9549

Determination of Critical Heat Flows Determination of Critical Heat Flows During the Boiling of a High Boiling Heat Transfer Agent in Pipes, by L. S. Sterman, V. D. Mikhaylov. RUSSIAN, per, Teploenergetica, Vol X, 1963, pp 82-87. 9698672

DDC RISC-485

ileat Transfer to Surface of Gas Turbine Blades, by E. R. Plotkin.
RUSSIAN, per, Teploenerg, No 11, 1964, pp 72-74.

*ACSI I-9179
ID 2204003366

Scientific Engineering (Contd)

Spectra of Irregularities of a Processed Surface, and Their Effect of the Life of Turbine Blades of Gas-Turbine Engines, by I. V. Dumin-Barkovskiy, S. Kh. Tupeyev, 48 pp.
RUSSIAN, per, Trudy Aviatsionnyy Tekh, No 60, 1964, pp 72-107. 9698780
FTD-TT-65-1486

The all-Union Order of Lenin "Hydraulic Design" Institute named for S. Ya. Zhuk; Present State of the Problem of Wave Protection and Slope Stabilizaton, 64 p. RUSSIAN, per, Trudy Gidroproyekta, No 11, L964, pp 1-63.

ACSI I-658
ID 2204057565

A Study of Aerodynamics and Heat Exchange in a Circular Channel with an Internal Rotating Cylinder, by V. N. Zmeykov, B. P. Ustimenko. RUSSIAN, per, Trudy Sbornik Probl Teploenerg i Priklad Teplofiz Vyp L, Ak Nauk Kaz SSR, 1964, pp 148-172.
*FTD-TT-65-2026

Method of Measuring the Vertical Velocity of a Plane in the Entire Frequency Spectrum of Its Changes, by L. A. Pakhomov, 15 p. RUSSIAN, per, Trudy, Tsentral naya Aerologicheskaya Observatoriya, No 55, 1964, pp 3-17.

Works of the Second All-Union Conference on Geographic Aspects of Illumination, by N. M. Gusev. RUSSIAN, mono, <u>Trudy II Vsesoyuznoy Konferentsii</u> po Syetovomy Klimatu, Moscow, 1961, pp 1-96.

An Unsteady Thermal-stress for Cylindrical Hoop-stiffened Shell, by S. M. Durgar'yan. RUSSIAN, bk, Trudy Vsesoyuznaya Konferentsiya po Teorii Plastin I Obolochek. 2D, Lvov, 1961, 1964, 460 pp.

Opimal Control in Ordinary Dynamic Systems, by N. N. Krasovskiy, 22 p. RUSSIAN, per, Uspechi Matematicheskikh Nauk, Vol XX, No 3, 1965, pp 153-174. *FTD-TT-65-2014

Self-Adjusted Programmed Machine-Tool Control System, by A. Ye. Kobrinskiy, A. Sh. Koliskor, Ye. I. Levkovskiy, V. Ye. Popov, and V. I. Sergeyev, 7 pp. RUSSIAN, per, Vestnik Akademii Nauk SSSR, No 9, Sept 1965, pp. 52-56. JPNS 33229

An Experimental Investigation of the Initial Stage of the Formation of a Gas Jet, by A. I. Starshinov, 6 p. RUSSIAN, per, Vestnik Leningradskogo Universiteta Seriya Matematike Mekhaniki Astronomii, No 3, 1968, pp 110-113.

ACSI I-8585
ID 220405 26 65

On the Mechanism of Action of Firns on Their Bed, by V. G. Chigir.

RUSSIAN, per, Vest Mosk Univ, No 1, 1964, pp 31-36.

*ACSI I-85613
ID 2204051565

Heat Conductivity of Tungsten at High Temperatures, by Yu. N. Simonova, L. P. Filippov. RUSSIAN, per, Zh. Prikl Mekhan i Tekhn Fiz, No 1, 19/5, pp 111-112.

Analysis of Flow Near a Blunt Solid of Revolution at Angle of Attack in Supersonic Flow of Gas, by A. N. Minaylos, II pp. RUSSIAN, per, Zhur Vychis Mate i Matemat Fiz. Vol IV, No I, Jan-Feb, 1964, pp 171-177. 9699018 FTD-MT-64-482

Simple Industrial Hot Blast Furnace, by Chu Ch'eng-hsiang (2612 0701 4382), 10 pp. CHINDER, per, <u>Hua-hsueh Shih-chieh</u>, No 9, 10 Sept 1965, pp. 421-423.

JPRS 33380

Several Glass-Enclosed Semi-Conductor Triodes Made in China, by Hao Po, 6 pp. CHINESE, per, Wu-hsien-tien, No 9, 12 Sep 1965, pp 21

JPRS 33348 Scientific
Engineering (Contd)

The Effect of Packing on the Responsibility of Railroads for Damage in Transportation, by Radomir Blagojevic.
CROATIAN, per, Ekonomsko Tehnicki Pregled,
No 1-2, 1964.
ACSI 1-5818
ID 2204050764

"Pretis" Enterprise in Vogosc - Largest Establishment in Europe for the Manufacture of Motor Scooters, by M. Jelic. CROATIAN, per, Narodna Armija, 8 Oct 1965, DIA UN 225-65

High Speed Registration with Materials Spectograph in Vacuum Technology, by W. Teubner. CZECH, per, Elektrotechnicky Obzor, Vol LIII, No 10, 1964, pp 526-528.

ACSI I-7890
ID 2204041365

Manual On the Packing of Mechanical Engineering Products, by J. Ruzicka,
CZECH, bk, Prirucka Baleni Strojirenskych
Vyrobku, 1962. pp 192-330.
*ACSI 1-8827
ID 2218034565

Highway Development.

CZECH, per, Silnichi Deprava, No 7, 1965, pp 8-10.

*ACSI I-8471

Transistorized D.C. Amplifiers With Negative Feedback, by B. Mirtes. CZECH, per, Slaboproudy Obzor, No 3, 1965, pp 157-165.
*ACSI I-8853B
ID 2204064565

Explosives and Their Effectiveness in Metal Forming by Explosion, by Jan Vacek.

CZECH, per, Strojirenska Vyroba, No 12, 1964, pp 881-885.

ACSI I-7793

ID 2204035765

The Planning of Science and Engineering Development, by M. Suska.

CZECH, per, Technika Prace (Kveten 1964), pp 325-330.

ACSI I-8726
ID 2204058465

Application of Different Methods of Non-Destructive Testing to fuel Elements of the Orgel Type, by P. Bonnet, J. Jansen.
FRENCH, rpt, Application des Differentes Methodes d'Essais Non Destructifs aux Elements
Combustibles du Type Orgel. TAEA preprint
SM-63/23. 9231685
AEC-Tr-6628

Determination of Density with the Induction
Gun Using the Stark Broadening of the
Db Line, by Jean Jacquinot, Francois Waelbroeck, 27 pp.
FRENCH, rpt, CEAR 2701 Eur 2154 f, Association
Euratom-CEA Groupe de Recherces sur la
Fusion Controlee Centre d'Etudes Nuclaeires
de Fontenay-aux-Roses,
Dept of Navy Tr 4373/ONI Tr 2027

Ultrasonic Inspection of Stainless Steel
Canning Tubes for the EL 4 Reactor,
by Andre Prot, Pierre Monnier,
FRENCH, rpt, Centre d'Etudes Nucleaires de
Saclay, Report No CEA-R 2577, Aug 1964,
9231639
AEC-NP-Tr-1288

Contribution to the Study of the Deformation of Pure Beryllium, by J. M. Dupouy, J. P. Poirier, et al.
FRENCH, per, Journal of Nuclear Materials, Vol XII, No 3, 1964, pp 277-290. 9231640
AEC-NP-Tr-1290

Determination of the Principal Glide Plane in -Plutonium, by B. Spriet. FRENCH, per, <u>Journal of Nuclear Materials</u>, Vol XV, 1965, pp 113-116. 9230343 AEC-ANL-Tr-210

Streamlines in a Continuous Flow, by Robert Legendre.
FRENCH, per, La Recherche Aerospatiale, No 105, 1965, pp 3-9. 9230046
NASA TT F-405

Impr ad Methods for Sealing Testing, 6 p. FRENCH, pat, Patent No 1,181,312.

Dept of Commerce Patent Office

Scientific Engineering (Contd)

Reversible Free Wheel Coupling, by Gert Schladebach, 5 p.
FRENCH, pat, Patent No 1,378,365.
Dept of Commerce
Patent Office

Automatic Water Discharging Device for Watering Streets and Gardens, by Ernestine Couten, 4 p.
FRENCH, pat, Patent No 517,328.
Dept of Commerce
Patent Office

Novel Magnetic Material, and Process for Its Manufacture, 10 p. FRENCH, pat, Patent No 1,094,988. Dept of Commerce Patent Office

Compound Hydromehanical Transmission, especially Applicable as a Gradual Gear Shift for Automobiles, by Franz Kruckenberg, Curt Stedefeld, et al, 9 p. FRENCH, pat, Patent No 894,056. Dept of Commerce Patent Office

Improved High pressure Heat Exchanges, 5 p.
FRENCH, pat, Patent No 946,944.
Dept of Commerce
Patent Office

Present State and Application of the Industrial Gas Turbine, by Paul Chambadal.
FRENCH, per, Soc des Ingenieurs Civils de France, Memories, Vol CLIV, No 3, 1961, pp 35-56.
*ACSI I-8809

The Energy Distribution of the Particles Emitted during Cathodic Sputtering, by A. Benninghoven.
GERMAN, per, Annalen der Physik, Ser 7, Vol XV, No 3, 4, 1965, pp 113-143. 9231636 AEC-UCRL-Tr-1251-L

Cost of Reactor Containments for Power Reactors, by W. Ullrich.
GRRMAN, per, Atomwirtschaft, Vol X, No 4, 1965, pp 169-171. 9250354
AEC-ORNL-Tr-7 28

MZFR--Reactor Pressure Vessel and Installed Construction, by H. Dorner. GERMAN, per. Atomwirtschaft, Vol X, 1965, pp 348-351. *AEC ORNL Tr-1014 EDC Jan 16, 1966

MZFR Safety Shield With Installation For Pressure Release, by D. Aisch. GERMAN, per, Atomwirtschaft, Vol X, 1965, pp 359-360. *AEC ORNL Tr 1023 EDC Jan 17, 1966

MZFR--Manufacture of the Most Essential Parts of the Primary Installations, by H. Wawersik. GERMAN, per, Atomwirtschaft, Vol X, 1965, pp 376-379. *AEC ORNL Tr1015 EDC Jan 16, 1966

MZFR--Construction of the Reactor Building and Installation of the Pressure Vessel, by G. Seyd. GERMAN, per, Atomwirtschaft, Vol X, 1965, pp 386-387. *AEC ORNL-TR-1021 EDC Jan 17, 1966

Blown Containers of Low-pressure Polyethylene for Packaging, by Hans-Erich Roder. GERMAN, per, Chemische Industrie, Vol XV, Oct 1963, pp 647-650.

ACSI 1-8586
ID 2204052765

Synthethic Zeolite and its Usage in High Vacuum Technique, by W. Espe. GERMAN, per, Experimentalle Technik der Physik, Vol XII, No 5, 1965, pp 293-308. ACSI I-7889
ID 2204041265

The Effect of Various Muscle lengths at Rest on the Rate of Increaseiin Muscle Strength Thorough Isometric Training, by W. Rohmert, H. Neuhaus, 18 pp.
GERMAN, per, Internatt Z fuer Angewandte Physiologie, Einschliesslich Arbeitsphysiologie, No 20, 1965.
Dept of Navy Tr 4423/ONI Tr 2026

Scientific Engineering (Contd)

Phosphating at Room Temperature, by L. Schuster, R. Krause. GERMAN, per, Korrosion und Metallschutz, Vol XX, No 5, 1944, pp 153-161. *ACSI I-9175 ID 2204002966

3,000-bis 3,275 Daimler-Benz Cab over Engine Truck LP 608,
GERMAN, per, Kraftverkehr-Correspondent,
19 Aug 1965.
ACSI I-8421
ID 2204048065

A Contribution for Designing Single-Stage 90 Degree Type Centripetal Turbines, by W. Kolb.
GERMAN, per, MTZ Motortechnische Z, Vol XXII, No 6, 1961, pp 204-207.
*ACSI I-9171
ID 2204002566

Some Thoughts about Simole Processes of Gas Turbines without Heat Exchanger, by M. Oehmichen.
GERMAN, per, MTZ Zeit, Vol XXIII, No 4, 1961, pp 139-144.
*ACSI I-9191
ID 2204004566

Machine Pumps.
GERMAN, bk, Mohno Pumpen, 7 Jun 1965.
Inclosure to 2210154665
*ACSI I-8607
ID 2210154665

Pumice Concrete used as Thermal Insulation of Prestressed Concrete Tanks in the E.D.F. Nuclear Power Plants, by Michel Menestrier, Bernard Tarbes. GERMAN, per, Nuclear Structural Engineering, Vol II, 1965, pp 102-119. 9231665
AEC-ORNL-Tr-852

Some Ideas on the Construction of Concrete Containers, by W. koenne.
GERMAN, per, Nucl Struct Eng, Vol II, 1965, pp 126-133. 9231688
AEC-ORNL-Tr-873

Method for Measuring the Content of Closed Containers, by Richard Gunther, 8 p. GERMAN, pat, Patent No 748,729. Dept of Commerce Patent Office

Thermodynamic Investigations of the Power Heat Coupling in the Gas Turbine Process, by G. Gruhn.
GERMAN, per, die Technik, No 6, 1964, pp 413-419.
*ACSI I-9194
ID 2204004866

Aerotriangulation with Independent Pairs of Stereoscopic Pictures the method of the Future, by K. Szangolies.

GERMAN, per, Vermessungstechnik, No 3, 1965, pp 92-94.

ACSI I-8616

ID 2204055765

Machines for Shrink Film Packing. GERMAN, per, Verpakking, Oct 1965, pp 97-101. *ACSI 1-9180 ID 2204003666

Centrifuge for Separating Solids from oilcontaining Liquids, 7 p. GERMAN, pat, Patent No 973,004. Dept of Commerce Patent Office

Distributing Conveyer for Depositing Briquettes in Stacking Places, 4 p. GERMAN, pat, Patent No 800,651.
Dept of Commerce
Patent Office

Information Storage, Especially a Regenerative Information Image Storage, by Albert Eduard Meister, 29 p.
GERMAN, pat, DAS No 1,171,959.
Dept of Commerce
Patent Office

Stenopaic Spectales, by Karl Scheiner, 2 p. GERMAN, pat, Patent No 89,575, Dept of Commerce Patent Office Scientific Engineering (Contd)

Experiences with a Boat Made from Glass-Piber Reinforced Polyester Resin during Construction and after Four Years of Operation, by J. Kulling, 9 pp.
GERMAN, per, Schiffbautechnik, Vol XV, No 5, 1965, pp 253-255.
Dept of Navy 4415/ONI Tr 2034

The Use of Contactless Surface Density Measurement in the Texrile Industry, by K. Herlitz.
GERMAN, rpt, Symposium on the use of Radioactive Isotopes in Textile Research and Industry.
Lindau/Bodensee, 8-10 Jul 1964. 9228042
ARC-NP-Tr-1297

Rock-Pressure Studies in China by Measurements in Porous Rock in Tunnels Under Construction, by Lin P'ei-wang, 15 pp.
GERMAN, per, Zeitschrift der Organisation fuer die Zusammenarbeit der Eisenbahnen, No 4,
1965, pp 5-10
JPRS 33426

Objectives of Power Engineering in Our National Economy and Future Duties of the Factory Power Engineers in their Implementation, by Istvan Hasz, 37 pp.
HUNGARIAN, Ipari Energia Gazdalkodas,
No 4, Apr 1965, pp 76-81.
DIA IN 169-65

Status of Power Engineering in
Plants on the Basis of a Study of the
Central People's Control Commission,
by Sandor Kiss, 37 pp.
HUNGARIAN, per, Iparl Energia Gazdalkodas,
No 4, Apr 1965, pp 82-85.
DIA IN 169-65

Results of Power Rationalization in the Alumina Industry, by Imre Gaspar, 37 pp.

HUNGARIAN, per, Ipari Energia Gazdalkodas,
No 4 , Apr 1965, pp 101-102

DIA IN 169-65

Tractor-towed Fog Generator For Plant Spraying, D. Pedron, Figlio, 5 p. ITALIAN, pat, Patent No 581,135. Dept of Commerce Patent Office

On the Reach Type Forklifts Today, and Introduction of new Products.

JAPANESE, rpt, Industrial Vehicles and Mechanical Cargo Handling Equipment
No 65, Nov 64, pp 2-13.

ACSI I-8617
ID 2204055865

Hypersonic Flows, by Robert Rowinsky, POLISH, per, Prace Instytut Lotnictwa, No 23, 1964, pp 36-54.

Protection of Embankments and Engineering River Installations During Operations Against Ice and Floods, by Stanislaw Bonikowski, 119 pp. POLISH, per, Przeglad Wojsk Ladowych, No 2, Feb 1965, DIA IN 295 F ID 2878019365

New Construction Methods of Entry Ramps for the T.P.P. Bridges, Linking of Combination Bridges, and Construction of Pile Driving Ferries, T.P.P. by Stanislaw Lang, 119 pp. POLISH, per, Przeglad Wojsk Ladowych, No 2, Feb 1965
DIA LN 295 F
ID 2878019365

Supplementary Losses in Squirrel-Cage Rotors of Synchronous and Asynchronous Machines, 21 pp.
RUMANIAN, per, Electrotehnica, Vol XII, No 10, 1964, pp 361-368. 9698820-V FTD-TT-65-554

The Asynchronous Machine With Solid Ferromagnetic Rotor, 42 pp.
RUMANIAN, per, Electrotehnica, Vol XII, No 10, 1964, pp 368-382. 9698820-V FTD-TT-65-554

Gas-Lubricated Friction Bearings Subject to Variable Loads and Speeds, by V. N. Constantinescu, 28 pp.
RUMANIAN, per, Revue Roumaine des Sciences Technique. Serie de Necanique Applique, Vol IX, No 2, 1964, pp 263-284.
969868
FTD-TT-65-377

Scientific Engineering (Contd)

Free Heat Convection in Turbine Clearance, by V. A. Arkad³yev, 5 pp.
UKRAINIAN, per, Dopovidi Ak Nauk UkrRSR, No 2, 1965, pp 204-206. 9699043
FTD-TT-65-1135

Machine for Boring Out Knots in Boards and for Inserting Plugs in Knotholes, by Hams Reinhard, 7 p. SWISS, pat, Patent No 231,533. Dept of Commerce Patent Office

Fuels & Propulsion

Homogeneous Critical Assembly With Profiled Fuel Loading, by A. K. Krasin, Ye. I. Inyutin, 9 pp. RUSSIAN, per, Atomnaya Energiya, Vol XVIII, No 2, 1965, pp 175-177. 9698818 FTD-TT-65-1609

Effect of the Thermodynamic Properties of the Working Medium on the Choice of Optimum Parameters for a Gas Turbine, by O. N. Yemin, N. N. Bykov. RUSSIAN, per, Izv VUZ Aviats Tekh, No 2, 1965, pp 65-75. NASA TT F-385

Cooling of Compressed Air for Gas Turbines, by N. Gasparovic, GERMAN, per, MTZ Motortechnische Zeitschrift, Vol XXII, No 1, Jan 1961, pp 23-25. *ACSI I-9284 ID 2204009966

Gas Turbine BMW 6012 & Its Possible Employments, by H. Deinhardt, GERMAN, per, MTZ Motor Technische Zeitschrift, No 10, Vol XXII, Oct 1961, pp 401-404.

*ACSI I=9283
ID 2204009866

Gas Turbines for Ships, by H. Schwechheimer, GERMAN, per, MTZ Motortechnische Zeitschrift, Vol XXIII, No 7, July 1962, pp 259-267.
*ACSI I-8767
ID 2204001566

Scientific Fuels & Propulsion (Contd)

Demag Exhaust Gas Turbine Charges, by H. Pfou. GERMAN, per, MTZ Motortechnische Zeit, Vol XXIII, No 9, 1962, pp 343-346. *ACSI 1-8766 ID 22v4001466

Solid Fuel Rockets in Russia, by
V. N. Sokol'skiy. 286 pp.
RUSSIAN, bk, Rakety na Tverdom Toplive v
Rossii, 1963.
*NASA TT F-415
CFSTI TT 66-51152

Fuel for Jet Engines, by Ya. B. Chertkov, G. F. Bol*shakov. RUSSIAN, bk, Topliva Dlya Reaktivnukh Dvigateley, 1964, 226 pp. *FTD-MT-66-2

Extension of the Chapman-Enskoy Method to Gas Mixtures with Internal Degrees of Freedom and Chemical Reactions, by S. V. Vallander, et al.
RUSSIAN, per, Vestn Lemingr Univ Ser Mat Mekhan i Astron, Vol XIX, No 7, 1964, pp 155-161.
NASA TT F-311

Hypersonic Nonviscous Radiant Gas Flow Past a Cone, by G. A. Koltom. RUSSIAN, per, Vestn Leningr Univ Ser Mat Nekhan i Astron, No 2, 1965, pp 118-126.

Materials Problems in the use of Plutonium as a Reactor Puel, by U. Benedict. FRENCH, rpt, CEA Report Tr A-164. 9230558 AEC-ORNL-Tr-769

Investigations in the Laboratories for Gas Turbines at the Iniversity Aachen, by K. Graf.
GERMAN, per, MTZ Motortechnische Zeit, Vol XXIII, No 33, 1962 Feb, pp 57-59.
*ACSI I-8760
ID 2204000866

Scientific Fuels & Propulsion (Comus

Quantization of the Ideal Monatomic Gas, gy E. Fermi.
GERMAN, per, Z. Physik, Vol XXXVI, 1926, pp 902-912.
NASA TT F-9480

Analysis of Polyphenyl Mixtures by Gas Chromatography With Capillary Columns, by N. Basili, C. Bordonali, et al. ITALKAN, per, Annali di Chimica, Vol LIV, 1964, pp 1081-1087, and CNEN RT/CHI (65) 22.
*AEC Tr 2310

Safety Systems for Gas-Cooled Graphite-Moderated Reactions, by M. Vojinovic, M. Carapic, 17 pp.
SERBOCROATIAN, per, Tehnika, No 3, 1964, pp 507-512. 9699007
FTD-TT-65-338

Materials & Metallurgy

Economics of Utilization of Metallurgical Slags, by V. I. Dovgopol. RUSSIAN, bk, published by 'Metallurgiya', Moscow, 1964.
*BISI 4584

Polyester Plasticizers for Nitrile Rubbers, by S. S. Spaskii, N. A. Obolonskaya et al. RUSSIAN, per, Akademiya Nauk SSSR. Ural'skii Filial. Trudy Instituta Khimii, No 3, 1959, pp 33-41. *CFSTI TT 66-51116

Production of Wall Panels From Gas Ash Concrete Based on Slag Portland Cement, by M. I. Diamant, et al. RUSSIAN, per, Beton i Zhelezo-Beton, No 2, 1965, pp 12-16. *BISI 4578

Exhaust Gas Analysis by Gas Chromatography, by P. Solbrig, et al.
RUSSIAN, per, Chemische Technik, Vol 16,
Dec 1964, p 745
BISI 4519

٧

A Heat-Resistant, Elastic, Moisture-Resistant Covering for Wood, by B. N. Ugolev. 2 p. RUSSIAN, per, Derevoobrabatyvayushchaya
Promyshlennost, Vol 9, No 10, 1960,
pp 9-10.
*CFST: TT 66-51095

Using "Micro-veneer" for Facing, by I.A. Kanashkin, Z.A. Onishchenko. RUSSIAN, per, Derevoobrabatyvayushchaya Promyshlennost, Vol 10, No 8, 1961, pp 11-12.
*CFSTI TT 66-51097

Thermodynamics of the Reactions of Molybdenum Chlorides With Metal Oxides, by S. S. Eliseev.
RUSSIAN, per, Doklady A N Tadzhik SSR,
Vol 6, No 3, 1963, pp 22-24.
BISI 4482

On the Sintering of Two-Phase Powder Systems, by V. V. Skorokhod, I. M. Fedorchenko. RUSSIAN, per, <u>Dopovidi Akad. Nauk UkRSR</u>, No 4, 1961, pp 486-489. HB 4555

On the Sintering of Two-Phase (Powder)
Systems, by V. V. Skorokhod, I. M. Fedorchenko.
RUSSIAN, per, Dopovidi Akad. Nauk UkRSR,
No 10, 1961, pp 1403-1406.
HB 4467

On Destroying Loads for a Plate
Weakened by a Circular Hole With
Radial Cracks, by V. V. Panasyuk.
RUSSIAN, per, Dopovidi, Akad Nauk URSR,
No 7, 1965, pp 868-872.
*AEC ORNL Tr 1025
EDC Jan 17, 1966

Thermoelectric Method of Investigating Plastic Deformation on and in a Specimen with a Stress Concentrator, by I. I. Ishchenko, et al. RUSSIAN, per, Dopovidi Akademii Nauk UKRSR, No 7, 1965, pp 873-875.
HB 6693

Scientific Materials & Metallurgy (Contd)

8∓

Effect of the Rate of Plastic Deformation of Steel Upon the Characteristics of Austenitic-Martensitic Structures, by T. M. Golovin'ska.
RUSSIAN, per, Dopovidi Akad. Nauk UkRSR, No 7, 1965, pp 897-900.
HB 6691

From Test Tube to Blast Furnace, by Vladimir Pospelov.
RUSSIAN, per, Ekonomicheskaya Gazeta, No 27, (48), 30 Jun 1962.
HB 6786

Influence of Stresses on Negative Creep in Chrome-Nickel Titanium Steels, by B. M. Rakhman. RUSSIAN, per, Fiz Metal i Metal, Vol XVIII, No 5, 1964, pp 687-690 9230557 AEC-ORNL-Tr-732

Study of Dynamics of Lithium Hydride and Deuteride by Inelastic Scattering of Cold Neutrons, by N. G. Zemlyanov, E. G. Brovman, et al. RUSSIAN, rpt, Gosudarstevennyi Komitet po Ispol*zovanniyu Atomnoi Energii. Institut Atomnoi Energii im I. V. Kurchatova.
*AEC
EDC Jan 10, 1966

Slit and Point Corrosion of Stainless steels in Chloride Solutions at Temperatures up to 100°C, by M. N. Fokin, M. M. Kurtepov, et al. RUSSIAN, rpt, International Symposium on Water Desalination, Washington 3-9 October, 1965, paper SWD/63.

*AEC Tr 2322
EDC 12/22/65

Study of Friction of Polyamides on Steel, by V. P. Mitrovich, 95 pp. RUSSIAN, bk, Issledovaniye Treniya Polyamidov po Stall, 1963, 95 pp. 9699116-V FTD-TT-64-1092

Investigation of the Phase Equilibrium in the Ti-Al₂O₂ System, by I. I. Kornilov, V. V. Glazova.
RUSSIAN, per, Izv Akad Nauk SSSR Hetally, No 1, 1965, pp 189-194.
NASA TT F-9566

Experimental Investigation of Free Oscillations of Liquids in Containers, by G. N. Mikishev, N. Ya. Dorozhkin, 6 p.
RUSSIAN, per, Izvestiya Akademii Nauk, OTN
Mekhanika i Mashinostroenie, No 4, 1961,
pp 48-53. 9698601
DDC RSIC-483

Determination of the Minimum Fluidity of Metals and Alloys for Complete Filling of Mold, by N. I. Taran, A. Ya. Khranov. RUSSIAN, per, Izvest. VUZ-Chern. Met., No 6, 1964, pp 149-155.

Distribution of Deformation Along the Height of the Testpiece When Upsetting it Under Ultrasonic Vibrations, by V. P. Severdenko, V. V. Klubovich. RUSSIAN, Izvest. VUZ-Chern. Net, No 1, 1965, pp 61-64.

On the Problem of Contact Friction in the Deformation Zone in Vibrodrawing, by T. M. Golubev, G. P. Dyadechko.
RUSSIAN, per, Izvest. VUZ-Chern. Met, No 2, 1965, pp 99-102.
HB 6727

Factors Affecting the Float up Rate of Inclusions in Steel, by C. I. Popel. et al. RUSSIAN, per, Izv. VUZ Chern. Met, No 4, 1965, pp 25-29.
*BISI 4593

Resistance to Deformation of Carbide Steels and Comparative Data on Other Steel Types, by L. D. Sokolov.
RUSSIAN, per, Izvest. VUZ-Chern Net, No 4, 1965, pp 91-95.

Mechanism of the Formation of Internal Hot Cracks in Continuous-Cast Square (Steel) Billets, by N. G. Gladyshev, et al. RUSSIAN, per, Izvest. VUZ-Chern. Net, No S, 1965, pp 40-44. HB 6507 Scientific
Materials & Metallurgy (Contd)

High-Temperature Thermomechanical Treatment of Steel 55S2 [AISI 9255] Additionally Alloyed with Carbide-Forming Elements, by R. I. Shukyurov, I. V. Paisov. RUSSIAN, per, Izvest. VUZ-Chern. Met, No 5, 1965, pp 157-161.

HB 6775

On a Criterion of Similitude in Modeling Splash Formation, by V. T. Zinov'ev. RUSSIAN, per, <u>Izvest. VUZ-Chern. Met</u>, No 6, 1965, pp 60-63.

Effect of Ultrasonic Vibrations on the Austenite Grain Growth [of Steel] in Annealing, by E. G. Aizentson, I. V. Spivak. RUSSIAN, per, Izvest. VUZ-Chern. Met, No 6, 1965, pp 127-130.
HB 6591

Kinetics of the Reduction of Fluxed Iron-Ore Pellets with Hydrogen, by V. N. Milyutin, S. T. Rostovtsev.
RUSSIAN, per, Izvest, VUZ-Chern. Met, No 7, 1965, pp 5-10.
HB 6621

Kinetic Peculiarities of the Reduction of Tron-Ore Pellets with Hydrogen and Methane, by M. A. Mazhenov, et al. RUSSIAN, per, <u>Izvest. VUZ-Chern. Met</u>, No 7, Jul 1965, pp 11-15.

Rimming and Crystallization Kinetics of Low-Carbon Rimming Steel During Continuous Casting, by N. I. Sautkin. RUSSIAN, per, <u>Izvest. VUZ-Chern. Net</u>, No 7, 1965, pp 50-55.

Factors Governing the Removal of Nonmetallic Inclusions in (Consumable Electrode) Vacuum Arc Nelting, by L. N. Belyanchikov. RUSSIAN, per, Izvest. VUZ-Chern. Net, No 7, 1965, pp 74-77.
HB 6627

Distribution of the Forces of Deformation in the Squeeze-Roll Unit of am Electric Weld Tube Mill, by Yu. F. Shevakin, V. I. Pasternak.
RUSSIAN, per, Izvest. VUZ Chern, Met, No 9, 1965, pp 103-107.
HB 6772

Speeding up the Open-Hearth Scrap Process by Injection of Compressed Air Into the Bath, by V. I. Sel'skii, et al. RUSSIAN, per, Izvest. VUZ-Chern. Met, No 10, 1965, pp 59-61.
HR 6703

The Patenting of Wire in a Fluid Bed, by V. Ya. Zubov, et al.
RUSSIAN, per, Izvest. VUZ-Chern. Met, No 10, 1965, pp 116-119.
HB 6706

Determining Concentration of Dyes on Colored Fabrics by Mesns of Spectra of Reflection, by L. A. Volodina. RUSSIAN, per, Iz VUZ Tekh Tekstil Prom, No 4, 1964, pp 97-104.
*ACSI I-8936
ID 2204066365

Selection of an Efficient Layout of the Capron Dyeing Process, Using Active Vinyl Sulfamidic Dyes, by L. A. Kovzhin. RUSSIAN, per, Iz VUZ Tekh Tekstil Prom, No 4, 1964, pp 105-110. *ACSI I-8936 ID 2204066365

A Statistical Method of Determining Guarantee Norms of Travel for Reconditioning Tires, by Ye. G. Vastroknutov, 6 p. RUSSIAN, per, Kauchuk i Rezina, No 2, 1965, pp 35-37.
ACSI I-8614
ID 22040555 65

Management and Technical Improvements at the Kadzharan Copper-Mulybdenum Combine, by A. Seakyan, 5 pp. RUSSIAN, np. Kommunist, 31 Oct 1965, p. 1. JPRS 33588 Scientific Materials & Metallurgy (Contd)

Investigation of Frictional Properties of Rubber Soles.
RUSSIAN, per, Kozhevenno-Gbuvnaya
Prom, no 9, 1964, pp 9-13.
*ACSI I-8937C
ID 2204066465

An Investigation into the Heating of Steel in Molten Glass, by A. D. Akimenko, A. I. Kozlov, et al. RUSSIAN, per, <u>Kuznechno-ShTAMP Proizvodstvo</u>, No 4, 1964, pp 37-38.
HB 6661

Lithium Salt-Based Lubricant for Warm Coining, by V. I. Zalesskii, et al. RUSSIAN, per, <u>Kuznechn. ShTamp. Proizvodstvo</u>, No 6, 1965, pp 1-4.

The Thermal Fatigue Recistance of Hot Forging Die Steels, by D. M. Korneev, V. I. Zalesskii.
RUSSIAN, per, Kuznechn. ShTamp. Proizvodstvo No 7, 1965, pp 5-8.
HB 6672

Study of the Process of Thermal Dissociation of Molybdenum Chlorides, by V.S. Emel'yanov. RUSSIAN, per, Met. i Metalloved. Chistykh Sb. Nauch. Rabot, No 3, 1961, pp 137-151.
BISI 4481

Reasons for the Occurrence of Brittleness in Ferrite-Austentic Stainless Steel, by V. M. Kardonskiy, M. D. Tserkas.
RUSSIAN, per, Metal Term Obrabotka Metal.
No 3, 1965, pp 37-40. 9230570
AEC-ORNL-Tr-799

Netallides and Reaction Between Them by I. I. Kornilov. RUSSIAN, bk, Netallidy i Vzaimodeystviye Nezhdu Nimi, 1964, pp 1-181. *JPRS/NY-13117

Large Unutilized Reserves Inherent in the Monferrous Metallurgy of Kasakhstan, by A. Smurnikov, 12 pp. Russian, per, Marodnoye Khozyzystvo Kasakhstana, Jul 1965, No 7, pp. 27-31. JPNS 33220

New Work Incentives Needed in the Nonferrous Metallurgy, by N. Stepanov, 7 pp. NUSSIAN, per, Narodnoye Khozyaystvo Kazakhstana, No 8, Aug 1965, pp. 15-17.

JPRS 33588

On Optimum Acceleration in the Central Field, by G. B. Yefimov, D. Ye. Okhotsimskiy RUSSIAN, bk, Ob Optimal'nom Razgone v Tsentral'nom Pole, 1965, pp 1-28.

Machining of Heat Resistant Steels,
Alloys and Refractory Matals, by
A. M. Daniyelyan, P. I. Bobrik.
RUSSIAN, rpt, Obrabotka Rezaniyem
Zharoprochnykh Staley, Splavov i
Tugoplavkikh Metallov, 1965, pp 212-308.
*FTD-MT-65-584

Refractory Materials Based on Boron Nitride + Silicon Nitride and Boron Nitride + Silicon Carbide, by G. V. Samsonov, V. K. Kazakov.

RUSSIAN, per, Ogneupory, Vol 30, No 7, 1965, pp 30-34.

HB 6689

Some Data on the Mineralogical Composition of "Silica Powder" in Forest-Steppe Soils, by A. A. Rode, I. I. Feofarova.2 pp. RUSSIAN, per, Pochvovedeniye, No 9, 1955, pp 58-59.
*CFSTI TT 66-51126

Poreless High Hardness Materials Obtained by Impregnation, by N. D. Lesnik, 2 p. RMSSIAN, per, Poroshkovaya Metallurgiya, No 3, 1968, pp 20-21.
*FTD-TT-65-1988

Spectro-Analysis for Sulfur in Solfidized Metal-Powder Components, by Yu. A. Vaiserman, N. I. Shcherban'. RUSSIAN, per, Porshkovaya Metallurgiya, No 7 (31), 1965, pp 97-99. HB 6759

Experience in the Production of Refractory Compounds Under Industrial Conditions, by V. S. Polishchuk.
RUSSIAN, per, Poroshkovaya Metallurgiya, No 7, 1965, pp 100-107.

Scientific Materials & Metallurgy (Contd)

Investigation of the Rolling Coefficients for Metal Powders, by G. A. Vinogradov, V. P. Katashinskii.
RUSSIAN, per, Poroshkovaya Metallurgiya, No 8, (32), 1965, pp 19-22.
HB 6656

Need for Improving Equipment at the Kommunarsk Metallurgical Plant, by A. Zherdev, 5 pp. RUSSIAN, np, Rabochaya Gazeta, 19 Oct 1965, p. 2. JPRS 33273

Construction Made of Aluminum Alloys.
RISSIAN, bk, Sprayochnik po Grazhdanskomu
Stroitel'stvu, Vol II, 1965, pp 695-749.
*ACSI I-8877
ID 2218303365

Structures Using Plastics.
RUSSIAN, bk, Spravochnik po Grazhdanskomu
Stroitel'stvu, Vol II, 1965, pp 750-781.
*ACSI I-8877
ID 2218303365

Constitution and Properties of Binary Metallic Systems. Vol 1. Physioco-Chemical Properties of the Elements. Nitrogen, Actinium, Aluminum, Americium, Barium, Beryllium, Borom Systems, by A. E. Vol. 755p.
RUSSIAN, bk, Stroenie i Svoistva Dvoinykh Metallicheskikh Sistem. Tom 1, Fiziko-khimicheskie Svoistva Elementov. Systemy Azota, Aktiniya, Alyuminiya, Ameritsiya, Variya, Verilliya, Bora. 1959.
*C FSTI TT 66-51149

Constitution and Properties of Binary Metallic Systems. Vol 2. Vanadium, Bismuth, Hydrogen, Wolfram, Gadolinium, Gallium, Hafnium, Germanium, Holmium, Dysprosium, Europium, Iron, by A, E. Vol. 983 pp.
RUSSIAN, bk, Stroenie i Svoistva Dvoinykh Metallicheskikh Sistem. Tom 2. Sistemy Vanadiya, Bismuta, Vodoroda, Vol'grama, Gadoliniya, Galliya, Cafniya, Germaniya, Gol'miya Disproziya, Evropiya, Zheleza, 1962, *CRTI TT 66-51150

Concerning the Solution of a Plane Problem of the Elasticity Theory by the Analogy Method With a Bent Plate, by G. A. Geniev. RUSSIAN, per, Stroitel'naya Mekhanika i Rachet Sooruzheniy, No 3, 1963, pp S-7. *FTD-TT-65-1966

Stero Photohrammetric Method of Measuring Deformations of Spatial Sturctures, by P. I. Poliakov. RUSSIAN, per, Stroitel'naya Mekhanika i Rachet Sooruzheniy, No 3, 1963, pp 7-11.
*FTD-TT-65-1966

Comments on the Calculation of Beams on Elastic Supports, by P. P. Suyorovskii. RUSSIAN, per, Stroitel'naya Mekhanika i Rachet Sooruzheniy, No 3, 1963, pp 12-15.*FTD-TT-65-1966

Calculation of Plastic Rods With Regard to Buckling, by V. P. Kotsegubov. RUSSIAN, per, Stroitel'naya Mekhanika i Rachet Sooruzheniy, No 3, 1963, pp 15-19.

Scientific-Research Work in a Volunteer Group for Protection of Metal From Corrosion, by T. Yelineki, V. Silorova.
RUSSIAN, per, Tekhnichesko Delo,
22 Jun 1963, pp 4-5.
*ACSI I-8618
ID 2204055965

Thermal Stability of Materials and Construction Elements, by G. S. Pisarenko. RUSSIAN, bk., Termoprochnost* Materialov i Knostruktisonnykh Elementov, 1965.

Contemporary Methods of Investigating Liquid Friction Bearings Used in Accressive Media, by L. I. Mamon, D. V. Galivets.

RUSSIAN, per, Trudy Dnepropetrovskiy Khimiko-Tekhnologicheskiy Institut Imeni F. E.

Dzerkhinskogo, Khimiya i Khimicheskaya

Tekhnologiya, Vypusk, 16, No 16, pp 181-188.

*FTD-MT-65-404

Determination of Mechanical Properties of the Metal Welded in Low Alloy Seams According to Their Chemical Composition by B. D. Lobedev.

RISSIAN, per, Trudy Dnepropetrovskiy Khimiko-Tekhnologicheskiy Institut Imeni F. E.

Dzerkhinskogo, Khimiya i Khimicheskaya
Tekhnologiya, Vypusk, 16, No 16,
pp 193-201.

*FTD-MT-65-404

Scientific Materials & Metallurgy (Contd)

Welding of Teflon and Other Organic Materials, by I. M. Barkalov. RUSSIAN, per, Trudy II Vses Soveshch po Radist Khim, Moscow, 1962, pp 616-620. *ACSI I-9169 ID 2204002366

The Structure-Energy Theory of Metal Fatigue, by V. S. Ivanova.
RUSSIAN, per, Trudy Inst Metallurgii, Ak
Nauk SSSR, 1962, pp 11-23.
*FID-MT-65-421

Investigation of the Process of Fatigue Break-Down of Metals by the Method of Magnetic Hysteresis and Eddy Current Losses, by O. I. Gushcha. RUSSIAN, per, Trudy inst Metallurgii, Ak Nauk SSSR, 1962, pp 147-152. *FTD-MT-65-421

On Dynamic Accuracy of Integrating Accelerometer, by L. V. Polonskaya, RUSSIAN, per, Trudy Sb Leningr Mekham In-Ta. No 29, 1963, pp 83-90.
*FTD-TT-65-2051

About Abrasive Properties of Steel
Erosion Products During Electrospark
Processing, by N. V. Afanas'yev,
A. G. Goloveyko, 7 pp.
RUSSIAN, per, Tsentral'naya NauchnoIssled Labor Elek Obrab Metallov,
Elek Obrab Metallov, Ak Nauk SSSR, 1963,
pp 134-138. 9698241
FTD-TT-65-45'

Aluminothermic Preparation of Aluminum-Cerium Alloy, by V. A. Podergin, G. V. Samsonov. RUSSIAN, per, <u>Tsvet Metal</u>, Vol III, 1964, pp 59-62. 9230587
AEC-ORNL-Tr-672

The Most Important Task Facing Monferrous and Rare Metals Enterprises Is to Raise the Percentage of Extraction and the Yield of Concentrates, 6 pp.
RUSSIAN, per, Tsvetnyye Metally, No 10, Oct 1965, pp. 1-4.
JPRS 33588

On the Dissolution of Zinc in Alkalas by V. I. Rodionova. RUSSIAN, per, Uch Zap Nosk Gos Ped Inst, Vol XCIX, 1957, pp 221-226. NASA TT F-252

A Thermodynamic Investigation of
Molybdenum Dibromide, by S. A. Shchukarev.
RUSSIAN, per, Vestnik Leningradskogo
Universiteta Ser. Fiz. Khim, No 4, 1962,
pp 148-153.
BISI 4509

Rapid Determination of Nitrogen in Steel by the Melting Extraction Procedure in a Carrier Gas Stream, by Helmut Lemm. GERMAN, per, Zeit fur Analy Chemie, Vol CCIX, No 1, 1965, pp 114-119. *AEC IS-Trans-25 EDC Jan 17, 1966

Heat-Resistant Materials -- A Handbook, by K. P. Shchedrov. RUSSIAN, bk, Zharostoykiye Materialy --Spravochnoye Posobiye, 1965, pp 1-166. *ACSI 1-8834 2218356965

Development of Methods of Defectoscopy of Metals With Application of Gamma Radiation, by G. M. Luppov, 11 pp. RUSSIAN, per, Zheleznod Transport, No 165, 1963, pp 82-91. 9698517 FTD MT-65-33

On the Mechanism of Electroosmosis in Liquid Metals, by D. K. Belashchenko, RUSSIAN, per, Zhur Fiz Khim, Vol XXXIX, 1965. *AEC IS-Trans-26 EDC Jan 17, 1966

Preparation of Dialdehyde Cellulose and its Esters, by A. G. Yashunskaya, N. N. Shorygina, et al. 9 p. RUSSIAN, per, Zhurnal Prikladnoi Khimii, Vol 22, 1949, pp 865-873. *CFSTI TT 66-51139

Expansion of Polynomials in Bessel Operators, by S. I. Osipov.
RUSSIAN, per, Zh. Wychisl Mat i Mat Fiz,
Vol IV, 1964, pp 149-155.
NAS/ TT F-255

Scientific
Materials & Metallurgy (Contd)

Measurement of the Impurity Distribution of Diffused Layers in Silicon by the Four-Point Probe and the Anodic Oxidation Technique, by L. Shulen, et al.

CHINESE, per, Acta Physica Sinica, Vol 20, Jul 1964, pp 643-653.

ACSI I-8413

ID 2204047265

Two New Varieties of Minerals of the Serpentine Group -- Fluorantigorite and Fluochrysotile, by Wang P'o (3759 0295) and Lu Wan-ch'-un (7120 8001 2504), 6 pp. CHINESE, per, K'o-hsueh T'ung-pao, No 9, Sept 1965, pp. 822-824.

JPRS 33433

The Use of Expanded Perlite as a Heaped Heat Insulating Cover for Killed Steel Ingot Feeder Heads, by A. Dekanovsky. CZECH, per, Hutn. Listy, Vol 20, No 3, 1965, pp 163-169.
BISI 4463

Some Applications of Hard Ferrites, by M. Zach. CZECH, per, Slaborproudy Obzor, Vol XXV, No 8, 1964, pp 452-458. *ACSI I-8724 ID 2204058265

The Temperature Dependence of the Magnetic Properties in Alloyed Soft Magnetic Materials, by Zd. Swestka, Zd. Tischer. CZECH, per, Slaboproudy Obsor, No 3, 1965, pp 173-176.
*ACSI I-8853 D ID 2204064565

Manufacture of High-Strength Rails With the Use of Vacuum, by Z. Motloch, et al. CZECH, per, Hutn. Listy, No 7, 1965, pp 468-473.
*BISI 4610

Materials for Separable Ultra-High Vacuum Joints, by W. Espe. CZECH, per, <u>Slaoproudy Obzor</u>, No 6, 1965, pp 335-342. ACSI I-8728 ID 2204058665

The Prospects and Trends of Research in the Sphere of Metallic Materials, by Rys and Karel Mazanic.

CZECH, per, Vestnik Ceshoslovenske
Akademie Ved, No 2, 1964, pp 212-221.

*ACSI 1-7859
ID 2204038265

The Development of a Plastic Milk Crate, by O. F. Bartoo, 8 pp. DUTCH, per, TNO Niews, No 20, 1965, pp 175-178. ACSI I-8432 ID 2204049165

Magnetic Aftereffects in Ferromagnetic Metals Electron Irradiated at 22° K, by Janine Verdone, Pierre Peretto, et al. FRENCH, rpt. 9231641 AEC-ORNL-Tr-666

Protective Concretes, by F. Dubois. FRENCH, per, Betons de Protection, CEA-Bib-No 40, 1963. *AEC ORNL-Tr-1063 EDC Feb 13, 1966

Structure of Coke. Applications to Industrial Coking, by A. Lermusiaux.

FRENCH, per, Chimie et Industrie, Vol XCII, No 3, 1964, pp 217-231. 9231644

AEC-AERE-Tr-1029

General Considerations Regarding the Secondary Cooling [in the Continuous Casting of Steel], by M. Porcheray, X. Chevrant. FRENCH, per, Circulaire D'Informations Techniques (C.I.T.), Paris, Vol 20, No 10, 1963, pp 2267-2279.

Pelletizing in the United States, by M. Boucraut. FRENCH, per, Circulaire D'Informations Techniques Commissions des Hauts Fourneaux, No 4, 1965, pp 933-974. *BISI 4598

Evidence for an "Inhomogeneity" of Carbon in an Austenitic Solid Solu L. Colombier, et al. FRENCH, per, Comptes Rend. Vol 245, 30 Sep 1957, pp 1135-1138. BISI 4480 Scientific
Materials & Metallurgy (Contd)

Determination of Uranium in its Alloys, by J. Gerard, L. Van Hove. FRENCH, rpt, IAEA preprint SM-63/34, a paper Presented at the Symposium on Non-Destructive Testing in Nuclear Technology, Bucharest, May 17-21, 1965. 9231684 AEC-Tr-6617

Study of Kinetics of Decolorization between 1950 A. and 9000A. of Quartz Crystals Irradiated with Slow Neutrons and Electrons of 2 MeV, by F. Porreca. FRENCH, per, Il Nuovo Cimento, Vol XXXV, No 2, 1965, pp 398-499. 9230547
AEC-BNL-Tr-15

Reduction of an Iron Oxide Bed With a Gas; II - Study of an Actual Case of Finite Reaction Belocities, by A. Rist, G. Bonnivard. FRENCH, per, IRSID, RE 20, May 1963, p 65. BISI 4487

Rimming and Semi-killed Steels, by
J. Duflot.
FRENCH, per, Irsid., Teeming of Steel, Pt, 1,
pp 1-49.
*BISI 4608

Study of Electrochemical Phenomena Connected with Carbide Precipitation in Some 18/8 Stainless Steels, by J. Voeltzel. FRENCH, per, Met. Corr. Ind., Vol 40, Mar 1965, pp 91-109.
BISI 4439 Pt 1

Study of Electrochemical Phenomena Connected With Carbide Precipitation in Some 18/8 Stainless Steels, by J. Voeltzel. FRENCH, per, <u>Met. Corr. Ind.</u>, Vol 40, Apr 1965, pp 158-130.
BISI 4439 Pt II

Study of Electrochemical Phenomena Connected With Carbide Precipitation in Some 18/8 Stainless Steels, by J. Voeltzel. FRENCH, per, Met. Corr. Ind., Vol 40, May 1965, pp 202-219.
BISI 4439 Pt III

The Use of Nomographs as a Quick Method of Calculating Feedheads for Steel Castings, by G. Zigiotti.
FRENCH, rpt, Paper Presented at XXXI. International Foundry Congress Amsterdam,
Sept 1964, 18 pp.
BISI 4452

Material of Imitation Fabrics and Other Aricles by Means of Viscous Materials, by Emile Duinat, 4 p.
FRENCH, pat, Patent No 368,393,
Dept of Commerce
Patent Office

Device for Producing Patterns in Mechanically Manufactured Knitted Fabrics, 6 p. FRENCH, pat, Patent No 36,722. Dept of Commerce Patent Office

Method of Increasing the Critical Current Density of Hard Superconducting Alloys and the Products Thereof, by Jesse Oatman Betterton, George Dewey Kneip, et al. FRENCH, Patent No 1,371,338. 9230536 AEC-AI-Tr-97

Determination of the Glass Transition Temperature of a Plastic Material From The Variations in Its Pendular Hardness, by B. Persoz, G. Grenier. FRENCH, per, Rech Aerospatiale, Vol XCIX, 1965, pp 11-16.

NASA TT F-365

Injections Into the Blast Furnace, by J. Cordier. FRENCH, per, Rev. Met., Vol 58, 15 Oct 1961, pp 92-116. (Special Edition) BISI 4296

The Influence of Boron on Susceptibility to Intercrystalline Corrosion of 18/10 Type Steels, by J. Voeltzel, G. Henry. FRENCH, per, Rev. Met. Mem. Sci. Vol 61, Feb 1964, pp 123-128. BISI 4493

The Continuous Casting of Steel. Part I, by G. Namy. FRENCH, per, Revue de Metallurgie, Vol 61, No 9, 1964, pp 769-775.

HB 6416-I

Control of the Oxygen Content in Steel at Different Production Stages in Low Capacity Melting Purnaces With Basic Linings, by P. Detrez.
FRENCH, per, Rev. Met., Vol 61, Oct 1964, p 831.
*BISI 4597

Scientific
Materials & Metallurgy (Contd)

Evaporation by Electron Bombardment of High Melting Point Metals, by M. Aubecq, et al. FRENCH, per, Rev. Met. Mem. Sci. Vol 61, May 1965, pp 373-378.
*BISI 4591

Diffusion in Cast Steels After Homogenisation Treatments, by M. T. Leger. FRENCH, per, Rev. Met. Vol 62, Sep 1965, pp 767-783.
*BISI 4606

Stress Relief and Weldability of Steels, by J. C. David, et al. FRENCH, per, Soud. Techn. Connexes, Vol 19, Jul-Aug 1965, pp 297-310. *BISI 4586

Recrystallization Behavior of Zone-Melted Nickel, by K. Detert, G. Dressler.
GERMAN, per, Acta Metallurgica, Vol XIII, 1965, No 7, pp 845-853. 9230560
AEC-ORNL-Tr-776

Contribution to the Theory of the Scaling of Pure Iron and of Scaling in General, by N. G. Schmahl, et al.
GERMAN, per, Arch. Eisehn. Vol 27,
Nov 1956, pp 707-713.
BISI 4377

Theory of Notch Impact Strength of Plain Carbon Steel, by K. Wellinger, M. Proger. GERMAN, per, Arch. Eisenh, Vol 35, Mar 1964, pp 221-240. BISI 4024

Reuction of Blast Furnace Slags and Silicon Content of Pig Iron, by W. Oelsen. GERMAN, per, Arch. Eisenh. Vol 35, No 8, Aug 1964, pp 699-711.
BISI 4400

The Constitution and Properties and Variations Thereof With Time of Heat-Resistant Nickel-Chromium and Cobalt-Nickel-Chromium Alloys, by W. Jellinghaus. GERMAN, per, Arch. Eisenh, Vol 35, Aug. 1964, pp 781-800.
*BISI 4587

Corrosion Resistance of Austenitic Chromium-nickel Steels in Boiling Concentrated Nitric Acid and Comparison With Intergranular Corrosion Testing in a Copper Sulphate/Sulphuric Acid Solution, by H. Ternes, W. Schwenk.
GERMAN, per, Arch. Eisenh. Vol 36, Feb. 1965, pp 99-108.
BISI 4456

A Computer Calculation of the RTduction in Counterflow as the Basis for a Mathematical Model of the Blast Furnace, by
L. von Bodgandy, R. Wartmann.
GERMAN, per, Arch. Eisenh. Vol 36,
Mar 1965, pp 221-236.
BISI 4399

Calculating the Cooling Time of Ingot Moulds, by K. Stephan, R. Jeschar. GERMAN, per, Arch. Eisenh. Vol 36, Jun 1965, pp 397-406.
BISI 4464

Etching for Segregation of Silicon in Hot Worked Steel and in Cast Steel, by H. Ludering.
GERMAN, per, Arch. Eisenh., Vol 36, Jul 1965, pp 509-511.
BISI 4424

Position of the Temperature Range of the Sigma Phase in Ferritic Chromium Steels, by H. J. Schuller.

GERMAN, per, Archiv f.d. Eisenhuttenwesen, Vol 36, No 7, 1965, pp 513-516.

Development, Design and Calculation of a Mathematical Model of the Blast Furnace. Part VII, by R. Wartmann.
GERMAN, per, Arch. Eisenh, Vol 36,
Aug 1965, pp 609-610.
*BISI 4585

Investigation of the Effervescence and Solidification Behaviour of Rimming Cast Steel, by E. Schurmann, et al. GERMAN, per, Arch. Eisenh, Vol 36, Sep 1965, pp 619-631.
*BISI 4579

'Scientific
Materials & Metallurgy (Contd)

Direct Electrochemical Determination of the Oxygen Concentration in Liquid Iron.
Part I "Investigations into Liquid Pure Iron, by W. A. Fischer, W. Ackermann.
GERMAN, per, Archiv f.d. Eisenhuttenwesen,
Vol 36, No 9, 1965, pp 643-648.
HB 6370

A New Apparatus for the Determination of the Surface-Shares of Metallic and Non-Metallic Phases With the Electron-ray Micro-Probe, by G. Dorfler, et al. GERMAN, per, Arch. Eisenh., Vol 36, Sep 1965, pp 649-653.
*BISI 4581

Processes at the Explosive Welding of Metallic Materials, by E. Schmidtmann. GERMAN, per, Arch. Eisenh, Vol 36, Sep 1965, pp 667-676.
*BISI 4582

Contribution to the Investigation into the Iron-Nitrogen-Carbon System, by F. K. Naumann, et al. GERMAN, per, Arch. Eisenh, Vol 36, Sep 1965, pp 677-682. *BISI 4583

Direct Electrochemical Determination of the Oxygen Content of Liquid Iron II - Effect of Phosphorus, Sulphur and Carbon on the Activity of Oxygen Dissolved in Iron Melts, by W. A. Fischer, et al.
GERMAN, per, Arch. Eisenh. Vol 36, Oct 1965, pp 695-698.
*HB 6518

Choice of Radionuclides for Luminous Paints in the Watchmaking Industry, by J. Mehl. GERMAN, per, Atomkernenergie, Vol X, No 3/4, 1965, pp 115-126.
*AEC
EDC Jan 24, 1966

Determination and Shaping of Series of Stretching Passes for Rolling Solid Steel on Continuous Precision Mill Trains, by E. Schneider. GERMAN, per, Bander, Bleche, Rohre, Apr 1965, pp 177-184. *BISI 4601

Preparatory Treatment of Complex Sintered Compacts of Non-Plastic Powders for Infiltration With Metals, by B. Cech, K. Zeman.

GERMAN, rpt, Berichte II Intern. Pulver-Metall. Tagung in Eisenach (Proceedings of the Second International Powder Metallurgy Conference at Eisenach, DDR), Berlin, 1962, pp 511-517.

HB 6679

On the Capacity of Tube Welding Installations, by E. Gorissen.
GERMAN, per, <u>Blech</u>, Vol 12, Feb 1965,
RP 1/2 - 1/7.
BISI 4490

Determination of the Adhesion of the Cost on the BVse Metal of Laminated Sheets, by E. Franke. GERMAN, per, Blech, Vol 12, May 1965, p 231. *BISI 4602

Cold Pilgering of Carbon Steel Tube, by F. Zeumert.
GERMAN, per, Blech, Vol 12, NO 7, 1965, RP 2, 4/5, 8, 10.

Heat Transfer in Filaned Tube Bundles, by W. Kast.
GERMAN, per, Chemie-Ing.-Techn, Vol 34, No 8, 1962, pp 546-551.
BISI 4527

A Method for the Determination of Niobium and Tantalum in Stabilized Chromium-Nickel Steels, by P. Munchow.
GERMAN, per, Chemiker-Zeitung, Vol 88, No 2, 1964, pp 37-43.
*BISI 4605

Dilatometry and Volume Constancy, by K. Konopicky, G. Routschka. GERMAN, per, Deutschen Keramischen Gesellschaft Berichte, May 1964, pp 301-309. BISI 4532

Application of the TTT Diagram for Continuous Cooling to Industrial-scale Heat Treatments, by E. Kunze, et al.
GERMAN, per, DEN-Techn. Ber, Vol 5, No 3, 1965, pp 106-110.
*HB 6751

Scientific Materials & Metallurgy (Contd)

Explosion Forming of Sheet Metal and Pipes, by A. Rickert, R. Harnisch. GERMAN, per, Fertigungstechnik und Betrieb, No 10, 1964, pp 609-615. ACSI I-7879 ID 2204040265

The Surface Roughness of Commercial Mild Steel Sheet and Strip and its Suitability for Electroplating With Zinc, by J. Elze. GERMAN, per, Galvanotechnik, Vol 55, No 10, 1964, pp 612-620.
*BISI 4590

Possibilities for the Mechanisation of the Stripping Process During Core Making in hot Boxes: Design and Heating of the Core Boxes, by G. Schneider.
GERMAN, per, Giesserei, Vol 51, 16 Apr. 1964, pp 227-234.
BISI 4494

The Gyratory Ladle, A New Means for Desulphurizing and (Re-) Carburizing, by J. Kobel, et al. GERMAN, per, Giesserei, Vol 52, No 15, 1965, pp 457-461.
*HB 6692

Tests for Ensuring Quality During the Melting of Cast Iron With Lamellar Graphite in the Cupola, by K. H. Caspers. GERMAN, per, Giesserei, Vol 52, Jul 22, 1965, pp 461-470. BISI 4467

New Methods for the Reduction of Burnt-on Sand on Carbon Steel Castings, by J. Ornst. GERMAN, per, Giessereitechnik, Vol 11, Feb 1965, pp 40-43. BISI 4495

Problems Concerning the Accuracy to Gauge of Cast Dies, by J. Dlezek.
GERMAN, per, Giessereitechnik, Vol 11,
No 3, 1965, pp 69-79.
BISI 4518

Nucleation and Growth of Graphite in Malleable Cast Iron, by S. Drapal, V. Horalek. GERMAN, per, Giosserei-Techn.-Wiss. Beihefte, Vol 16, No 3, Jul 1964, pp 127-134. HB 6636

Mechanical Handling Equipment at the Leipzig Jubilee Fair 1965, by H. Priemer. GERMAN, per, Hebezuge Und Fordermittel, No 5, 1965, pp 129-134. *ACSI I-8737 ID 2204059565

Flexible Transport and Storage Container Made of Rubberized Textile Fabric, by H. Huther.
GERMAN, per, Herezeuge Und Fordermittel,
No 8 Aug 1965, pp 249-252.
*ACSI I-9172
ID 2204002666

Fire Resistant Plastics, by K. Kopetz. GERMAN, rpt, Inclosure to 5318025065
12 Jul 65, 10p.
*ACSI I-8753
ID 5318025065

Contribution to the Study of the Separation of Uranium and Plutomium From Mixtures of Their Hexafluorides, by P. Regnaut, M. Bourgeois.
GERMAN, per, Kerntechnik, Isotopentechnik und-Chemie, Vol VII, No 8/9 1965, pp 388-394.
**AEC
EDC Feb 15, 1966

Analysis of the Orientation Distribution of Crystallities in Rolled High-Purity Copper, by F. Haessner, U. Jakubowski, et al. GERMAN, rpt, Lecture given during the Spring Meeting, March 22 to 27, 1965, of the German Association of Physiciats in Freudenstadt. 9230562 AEC-ORNL-Tr-786

Principles of Colorimetric Determination of Trace Aluminium With Eriochrome Cyanin R, by A. J. Hegedus.

GERMAN, per, Mikrochimica Acta, No 5-6, 1963, pp 831-850.

BISI 4389

X-Ray Stereo-Microradiography as an Aid to Netallurgical Analysis, by R. Mitsche, H. J. Dichtl.
GERMAN, per, Mikrochimica Acta, No 3, Jun 1965, pp 503-514.
BISI 4530

Scientific
Materials & Metallurgy(Contd)

Contribution to the Thermal Conditions of a Continuous Casting Mould, by J. Tischendorf. GERMAN, per, Neue Hutte, Vol 1, No 5, 1956, pp 303-307.
*HB 6690

Development of High Ctrength Steels for Highly Stressed MAchine Parts of Power Plants, by Z. Eminger. GERMAN, per, Neue Hutte, Jun 1965, pp 350-355. *BISI 4594

Non-Destructive Methods for Identification of Delta Ferrite in Austenitic Steels, by K. Spiegelberg, et al. GERMAN, per, Neue Hutte, Vol 10, No 8, 1965, pp 480-484.
*HB 6756

Kinetics of Precipitation of (Fe,Cr) 23C₆ Carbides From Ferrite in X5CrNi18.9 Weld Metal, by V. Horn. GERMAN, per, News Hutte, Vol 10, Sep 1965, pp 557-561. *BISI 4577

Investigation of Banded Structure in Roller Bearing Steel, by H. J. Spies.
GERMAN, per, New Hutte, Oct 1965, pp 619-624.
*BISI 4592

Contribution to the Study of Boiling of Liquid Notals Under Forced Convection, by G. Grass, H. Kottowski, et al. GERMAN, per, Nukleonik, October 1965. *AEC EDC Jan 30, 1966

Safety in Transport and Handling Operations, by A. Plattig.
GERMAN, rpt, Paper Presented at the International Steelworks Transport Conference a at tusseldorr, 1965, pp 10.

The Effect of Radex-E and Ski Roofs on the Output, Heat Consumption and Lining Costs of Producer Gas- and Natural Gas/Oil Fired 30- and 40-Ton Open-hearth Purnaces, by A. Schoberl, E. Pink.
GERMAN, per, Radex Rund, Aug 1965, pp 545-558.
BISI 4525

Historical Development of the Industrial Furnace and its Place in the Works, by C. God.
GERMAN, per, Radex Rund, No 5, 1965, pp 672-686.
*BISI 4604

Predetermined Standard Cost Accounting by Means of an Electronic Data Processing Unit, by M. Feindler. GERMAN, per, Stahl Eisen, Vol 84, Nov 19, 1964, pp 1585-1592. BISI 4094

Action of Hydrogen and Other Gases on Steel at Elevated Temperatures, by I. Class. GERMAN, per, Stahl Eisen, Vol 85, Feb. 11, 1965, pp 149-155.
BISI 4483

Analogue Computers in the Steel Industry, by L. Noronha.
GERMAN, per, Stahl Eisen, Vol 85, 25 Feb 1965, pp 202-203.
*BISI 4599

The Problem of the Automation of the Oxygen Blowing Process. I - The Accuracy of Various Methods in Melting Oxygen-blown Steels and Suggestions for their Improvment, by H. P. Haastert, et al. GERMAN, per, Stahl Eisen, Vol 85, 25 Mar 1965, pp 317-331.
BISI 4457 I

Examination of Steel Tubes for Surface Defects by the Fluorescent Magnetic Particle Method, by R. Hartjenstein. GERMAN, per, Stahl und Eisen, Vol 85, No 9, Mar 1965, pp 513-519.

HB 6545

Refining of (Basic Oxygen) Steel Baths with a Pulsating Oxygen Jet, by P. E. Hardt, G. Vocke. GERMAN, per, Stahl und Eisen, Vol 85, No 12, 1965, pp 713-721.

Iron Losses in the Waste Gases from the Production of Basic Oxygen (LD) Steels, by H. vom Ende, W. D. Liestmann.
GERMAN, per, Stahl und Eisen, Vol 85, No 12, 1965, pp 721-724.
IIB 6578

Scientific
Materials & Metallurgy (Contd)

The Metallurgy of the Basic Oxygen Process, by Th. Kootz, et al. GERMAN, per, Stahl und Eisen, Vol 85, No 14, 1965, pp 857-865.
HB 6607

Oxygen Lance Nozzle Experiments for the Control of the Bath Motion of High-Phosphorus Hot Metal in a 50-Ton Basic Oxygen Purnace, by P. Metz, E. Glaesener. GERMAN, per, Stahl und Eisen, Vol 85, No 15, 1965, pp 902-907.

HB 6533

Vacuum Deoxidation in the Degassing of Killed and Unkilled Steels at Tapping, by A. Tix, G. Bandel, et al. GERMAN, per, Stahl und Eisen, Vol 85, No 17, 1965, pp 1033-1039.

Measurement of the Reducibility of Blast Furnace Burdens, by K. H. Schmitz. GERMAN, per, Stahl Eisen, Vol 85, 26 Aug 1965, pp 1061-1063. BISI 4501

Carbon Dioxide Arc Welding of Structural Steels, by W. Hummitzsch.
GERMAN, per, Stahl und Eisen, Vol 85, No 19, 1965, pp 1187-1195.
HB 6665

Sprayed Layers of Steel and Non-Ferrous Metals and Tests for Adhesion Strength, by A. Matting, et al.
GERMAN, per, Stahl Eisen, Vol 85, 1965, pp 1257-1266.
*BISI 4609

Heat Treatment and Descaling of Wire Rod in Vacuum, by F. Bleilob, et al. GERMAN, per, Stahl Eisen, Vol 85, No 21, 1965, pp 1311-1320.
*HB 6687

Continuous Automatic Analysis of the Composition of the Pikeling Bath, by F. Oehme, et al. GERMAN, per, Stahl Eisen, Vol 85, 21 Oct 1965, pp 1335-1340.
BISI 4549

Dry Electrostatic Precipitation for Cleaning Cupola Gases, by H. Schnitzler. GERMAN, per, Staub, Vol 24, No 6, 1964, pp 201-205.
*BISI 4611

The Drawing in of Air in the Oxygen
Top-Blowing Process, by K. H. Kluth,
J. Maatsch.
GERMAN, per, Techn. Mitt. Krupp, Vol 22,
Jun 1964, pp 24-40.
BISI 4067

Gas Nitriding and Bath Nitriding ov Various Steels, by O. Flegel-Farnholz. GERMAN, per, Techn. Rund, Vol 12, 26 Mar 1964, pp 17-23,29. *BISI 4595

Trade Names of Sheets, paper, Cartons and Wrapping Material, GERMAN, per, Verpackungs, No 8, 1965, pp 48-77. *ACSI I-8759

ID 2204000766

Cleavage Surfaces of Sheared Off Bar Sections, by H. Zabel. GERMAN, per, Werkstattstechnik, No 10, 1964, pp 530-538. *BISI 4596

Spark-erosion Metal Removal With Pulse-Controlled Generator, by K. Schekulin. GERMAN, per, Werkstattstechnik, Vol 55, Feb. 1965, pp 53-57. BISI 4288

Modern Developments in Corrosion Protection of Steel Semi-Products, by K. A. van Oeteren. GERMAN, per, Werkstoffe Korrosion, Apr. 1964, pp 348-349.
BISI 4473

Corrosive Behaviour of Zinc and Zinc Coatings When Exposed to the Atmosphere, by G. Schikorr.
GERMAN, per, Nerks. Korros, No 7, 1964, pp 537-543.
*BISI 4588

Stainless Steels for the Chemical Industry. Present Position and Recent Developments, by R. Oppenheim.
GERNAN, per, Werks. Korr. Vol 16,
Jan 1965, pp 1-11.
BISI 4514

Scientific
Materials & Metallurgy (Contd)

Investigation of the Effect of Iron (II) Sulphate During Atmospheric Rusting and During Under Rusting of Paints - Paints - Part I, by H. Schwarz.

GERMAN, per, Werks. Korros. Vol 16, Feb 1965, pp 93-103.

BISI 4269

New Stainless Steels for Chemical Plant Construction, by H. Jesper, W. Wessling GERMAN, per, Werks. Korros, Vol 16, Jun 1965, pp 453-465.
BISI 4433

Influence of Water Vapour and Carbon Dioxide on Oxidation of Iron and Iron-Base Alloys at Elevated Temperatures, by A. Rahmel. GERMAN, per, Werks. Korros, Vol 16, Oct 1965, pp 837-843.
*BISI 4576

Investigations on the Salt-Like Nature of Lithium Hydride, by Kurt Moers.

GERMAN, per, Z fur Anorganische und Allgemeine Chemie, Vol CCIII, 1920, pp 179-228. 9231678

AEC-UCRL-Tr-1254(L)

The Structure of Monatomic Fused Metals, by H. Richter, G. Breitling. GERMAN, per, Zeit fur Naturforschung, Vol XXa, No 8, 1965, pp 1062-1075. *AEC Tr-2315

Nuclear Explosives and the Mining Industry, by Facca, Giancarlo, Pantanetti Fabio. ITALIAN, per, Comitato Nazionale per l'energia Nucleare Notiziario, Vol IX, Aug-Sept 1963, pp 52-60.

Processes Adopted to Eliminate Defects on Round Profiles and to Increase a Rolling Mill Plant Production, by C. Moreschini. ITALIAN, per, Met. Ital, Vol 57, Apr 1965. pp 156-168. *BISI 4607

Information Needed by the Head of the Transport Department in Order to Control and Run his Organisation Under the Best Conditions, by Cervo; Gallo.
ITALIAN, rpt, Paper Presented at the Inter-National Steelworks Transport Conference at Dusseldorf, 1965, pp 5.
BISI 4560

Safety in Handling and Transporting Iron & Steel Products, by G. Cervo;
Monticelli.
ITALIAN, rpt, Paper Presented at the International Steelworks Transport Conference at Dusseldorf, 1965, pp 26.
BISI 4510

The Relation Between Oxygen Blowing and Carbon Content and Gases in Molton Cast Steel During Oxidizing Period, by Y. Miyagawa, H. Anami.

JAPANESE, per, Imono, Vol 36, Jun 1964, pp 533-544.

BISI 4388

Ion Exchange Resins in Analytical Chemistry, by M. Honda.
JAPANESE, per, J. Chem. Soc. Japan. Pure Chemistry Section, Vol 70, 1949, pp 103-104.
*BISI 4575

Surface Temperature of Metals Heated With Lasers, by Susumu Namba, et al. JAPANESE, per, Rikagaku Kenkyusho Hokoku, Vol 41, No 1, 1965, pp 1-4. ACSI I-8609 ID 2204055065

New Continuous Butt-Weld Pipe Mill, by I. Komoda, T. Tanaka, et al. JAPANESE, per, Sumitomo Kinzoku, Vol 16, July 1964, pp 238-247. BISI 4485

Texture of Rimmed Steel Sheet, by T. Akamatsu, et al. JAPANESE, per, Tech. Report of Fuji Steel Co, Vol 13, No 2, 1964, pp 269-276.

Construction and Operation of an R-H Vacuum Steel Degassing Plant, by S. Watanabe, et al. JAPANESE, per, Tetsu to Hagane, Vol 50, No 3, 1964, pp 456-458. HB 6724 Scientific
Materials & Metallurgy (Contd)

On the Melting of Alloy Steels in the Basic Oxygen [LD] Purnace. Part II of 'The Production of Alloy Steels in a Basic Oxygen Furnace', by K. Kawakami, T. Itaoka. JAPANESE, per, Tetsu to Hagane, Vol 50, No 11, 1964, pp 1715-1718.

HB 6709

Primary Inclusions from the Deoxidation [of Steel] with Silicon and Aluminum.
Part I of 'Kinetic Researches on Steel Deoxidation'. by T. Kawawa, M. Koubo, et al.
JAPANESE, per, Tetsu to Hagane, Vol 50,
No 11, 1964, pp 1859-1862.
HB 6763

Electroluminescence of Copper-and Mangamese-Activated Zinc Sulfide, by E. Ostaszewicz.

POLISH, per, Acta Physica Polonica, Vol XXVII, No 2, 1965, pp 293-303.

*FTD-TT-65-2015

Investigation into 18-4-1 High-Speed Tool Steel Containing 0.25% Sulfur, by K. Lassota.

POLISH, per, Hutnik (Poland), Vol 31, No 12, 1964, pp 383-388.

HB 6552

Determination of the Hydrogen Content of Netals by the Chromatographic Method of Analysis of Gases After Their Extraction in High Vacuum, by Z. Falecki.
POLISH, per, Hutnik (Poland), Vol 32, No 4, 1965, pp 143-149/HB 6641

Refractories for the Continuous Casting of Steel, by F. Tomsu, V. Dolezel. POLISH, per, Hutnicke Listy (Prague), Vol 20, No 2, 1965, pp 111-116. HB 6504

Effect of Pouring Rate on the Depth of Location of the Subcutaneous Blowholes in Rimmed-Steel Ingots, by V. Parma. POLISH, per, Hutnicke Listy, Vol 20, No 4, 1965, pp 234-236.

The Effect of Hot Working Conditions on the Re-Crystallization of Steel, by R. Wusatowski.

POLISH, per, Prace Inst. Hutniczych (Katowice), Vol 16, No 3, 1964,

pp 113-125.

*BISI 4600

Effect of the Amount of Aluminum for Deoxidation on the Quantity of Non-metallic Inclusions in Killed Steels, by A. Aniola. POLISH, per, Prace Rady Naukowo-Techniczney Huty im. Lenina (Poland), No 14, Apr 1964, pp 27-39. HB 6673

On Instantaneous Reversible Permeability of Ferrites with Square Hysteresis Loop, by H. Wierzba.

POLISH, per, Przeglad Elektroniki, No 11, 1964, pp 603-608.

ACSI I-8410

ID 2204046965

On the Specific Consumption of Aluminium for the Deoxidation of Casting Steels, by L. Apa.
RUMANIAN, per, Metallurgia (Bucharest), Vol 17, No 8, 1965, pp 406-410.
*HB 6737

Effect of Halogens on Luminal Chemoluminescence, by K. Weber, J. Matrovic. SERBOCROATIAN, per, Arhiv za Higijenu Rada i Toksikologiju, Vol XV, No 2, 1964, pp 151-162.

ACS. 1-8583
ID 2204052465

Determination of Hydrogen Diffusion in Metals Deposited in Electric Arc Welding, SPANISH, per, Cenim Rev. Met, Vol 1, Jan-Feb 1965, pp 96-98. *BISI 4580

A Comparison of the LD and Kaldo Processes From the Point of View of Production Costs (With comments by F. Johansson), by G. Kaspar. SPANISH, per, Rev. (ILAFA) Latinoamer. Sid, No Sa, Nar 1965, pp 25-32. BISI 4477

Scientific Materials & Metallurgy (Contd)

Method for the Manufacture of Parquet Floors
Made From Parquet Flooring Panels, as well as
Parquet Floor Manufactured According to this
Method, by Jacques Goldinger, Ag. Jago Werke,
6 p.
SWISS, pat, Patent No 275,527.
Dept of Commerce
Patent Office

Behavior of Zirconium Dichloride in Molten Mixtures of Alkali and Alkali Earth Metals, by I. N. Sheyko, V. T. Barchuk. UKRANIAN, per, Ukrains Khim Zhur, Vol XXX, No 6, 1964, pp 577-581, 9231675
AEC-ANL-Tr-233

Mathematics & Data Processing

Data Processing Systems in Space Biology, by R. M. Bayevskiy, A. D. Voskresenskiy, et al. RUSSIAN, per, Avromat Kontrol i Metody Elekt Izmerenty, Vol II, 1962, pp 100-105. 9230358 NASA TT P-9514

Automatic Control and Nothods of Electric Measurements; Vol II - Theory of Data Processing Systems. Automatic Control Systems. Electric Measurement of Nonelectric Quantities, by K. B. Karandeyev.
RUSSIAN, bk, Avtomaticheskiy Kontrol' i Metody Elektricheskikh Izmereniy, tom II.
Teoriya Izmeritel'nykh Informatsionnykh Sistem. Sistemy Avtomaticheskogo Kontrolya. Elektricheskiye Izmereniya Neelektricheskikh Velichin, 1964. 9230100-V

Automatic Syntactic Analysis, 75 pp. HISBIAR, bk, Avtomatichesky sintaksichesky analis, 1964, pp. 1-66.
JPRS 33582

Synthesis of Reliable Systems from Unreliable Elements by the Fuedback Hethod, by V. B. Georgiyevskiy, 7 pp. RUSSIAH, per, <u>Avtomstyka</u>, No 3, 1965, pp 40-45 JFBS 33253 Scientific
Mathematics & Data Processing (Contd.)

Preliminary Transformation Device for Speech Recognition, by V. G. Zaytsev, 9 pp. RUSSIAN, per, <u>Avtomakyka</u>, No 3, 1965, pp 46-54 JPRS 33253

The Use of Recognition Systems as Learning Correctors of Extreme Control, by 0. G. Ivakhnenko, 20 pp. RUSSIAN, per, <u>Avtomatyka</u>, No 3, 1965, pp 55-72
JPRS 33253

A Method of Algebraic Description of Contactless Circuits, by R. P. Morozov, 7 pp.
RUSSIAN, per, <u>Avtometyka</u>, No 3, 1965, pp 73-78
JPRS 33253

On The History of the Origin of Extreme Control System, by A. M. Bonch-Bruyevich, 6 pp.
RUSSIAN, per, Avtomatyka, No 3, 1965, pp 79-84
JFRS 33253

Application of High-Speed Computers to the Solution of the Restricted Three-Body Problem by the Hill-Brown Method; Part 1: Calculation of the Right-Hand Sides of the Equations in Inhomogeneous Form, by V. A. Shor.
RUSSIAN, per, Byull Inst Teor Astron, Vol VII, No 8, 1960, pp 639-675.
NASA TT F 9490

Test for Representability of Events in Finite Probability Automata, by R. G. Bukharayev, 6 pp.
RUSSIAN, per, Doklady Akademii Nauk 888R, Vol 164, No 2, 1965, pp. 289-291.
JPRS 32940

Automata Forecasting a Random Process, by A. S. Kholevo, 8 pp.
RUSSIAN, per, <u>Doklady Akademii Nauk SSSR</u>,
Vol 164, No 3, 1965, pp. 515-518.
JPRS 33151

Scientific

Mathematics & Data Processing (Contd)

A Contribution to the Theory of Asymmetrical Codes, by R. R. Varshamov, 9 pp. RUSSIAN, per, Doklady Akademii Nauk SSSR, Vol 164, No 4, 1965, pp. 757-760.
JPRS 32939

New Methods of Plasma Diagnostics According to Spectroscopic Data, by A. P. Kudrin, G. V. Sholin, 13 pp.
RUSSIAN, rpt, Boklad, Predstavlennyy na VI Mezhdunarodnyy Simpozium po Ionzatsionnym Yavleniyam v Gazakh, 1963, pp 1-16. 9699012 FTD-MT-65-99

Mathematical Formulation of a Simplified Model of Production Planning, by Yu. N. Tyurin, 30 pp. RUSSIAN, per, Ekonomika i matematicheskiye metody, Vol 1, No 3, May/June 1965, pp. 391-409.
JPRS 33613

Modeling of the Process of Compiling Schedules for Urban Passenger Transport on Electronic Computers, by M. R. Kogalovskiy, 25 pp.
RUBSIAH, per, <u>Ekonomika i Natematicheskiye</u>
Metody, No 5, pp 718-729, Sep-Oct 1965.

JPBS 33,340

Method of Analysis in the Theory of Dynamic Programming, by I. M. Burshteyn, 11 pp. RUSSIAN, per, <u>Ekonomika i Matematicheskiye</u> Metody, Vol I, No 5, 1965, pp 739-745.

JPRS 33319

On a Mechanism for Transforming Graphical Data into Input for An Electronic Digital Computer, by S. A. Aleskerov.
RUSSIAN, per, Izvestiya. Ak Nauk AzerBSSR.
Seriya Fizilo-Tekhnicheskikh I Matematicheskikh Nauk, No 1, 1964, pp 43-48.
*FTD-TT-65-1992

Thermoelectric Properties of the System Cusbte2--Snte, by R. Kh. Nina. RUSSIAN, per, Izvestiya. AN AzerBSSR, Seriya Fiziko-Tekhnicheskikh I Matematicheskikh Nauk, No 5, 1964, pp 69-72. *FTD-TT-65-1993

Equations for Creep Based on the Criterion of Maximum Applied Stress, by Yu. V. Nemirovskiy, RUSSIAN, per, Izvestiy. AN, SSSR, 1964. 9698708
DDC RSIC-472

Scientific
Mathematics & Data Processing (Contd)

Means for Mechanization of Engineering and Administrative Work, by K. H. Botvich, 10 pp. RUBSIAH, per, Mashinostroitel', No 9, Sep 1965, pp 9-12 JFMS 32,910

Certain Integral Inequalities and the Solvability of Degenerating Quasilinear Elliptic Systems of Differential Equations, by Yu. A. Dubinskiy. RUSSIAN, per, Matemat Sbornik, Vol LXIV, No 3, 1964, pp 458-480. *FTD-TT-65-1808

Theoretical Principles and Design of Digital Computers, by B. V. Anisimov, V. N. Chetverikov, 21 p. RUSSIAN, bk, Osnovy Teorii i Proyektirovanrya Tsifrovykh Vychislitel nykh Mashin, 1965, pp 459-479.
*FTD-MT-66-1

Information and Technical Progress, by Ye. Pashkin, 11 pp.
RUSSIAN, per, <u>Planovoye Khozyaystvo</u>, No 8, Aug 1965, pp. 9-16.
JPRS 33244

Concerning an Exact Solution of the Equations of Magnetogasdynamics for Finite Conductivity, by V. A. Rykov. RUSSIAN, Prik Mate i Mekh, Vol XXIX, No 1, 1965, pp 178-181.
*FTD-TT-65-1829

Propagation of an Arbitrarily Oriented
Rectilinear Crack During Extension of a
Plate, by V. V. Panasyuk, L. T. Berezhnitskiy,
et al.
RUSSIAN, per, Prikladnaya Mekhanika, Otdeleniye Matematiki, Mekhaniki, i Kibernetiki,
Akademii Nauk UkrSSR, Vol 1, No 2, 1965,
pp 48-55. 9230061
NASA TT F-402

A System for Programming Automation, by N. P. Trifonov, M. R. Shura-Bura, 193 pp. RUSSIAN, bk, Sistema Avtomatizatsii Programmirovaniya, Noscow, 1961, 187 pp. 9698960-V FTD-TT-65-830 Scientific

Mathematics & Data Processing (Contd)

Mumerical Solution of Quasi-Linear Parabolic Equations, by D. G. Gordeziani. RUSSIAN, per, Soobshcheniya AN GruzSSR, Vol 37, No 1, 1965, pp 3-10. *FTD-TT-65-2003

Approximate Solution of a Basic Biharmonic Problem, by G. Shefer.
RUSSIAN, per, Soobshcheniya AN GruzSSR,
Vol 37, No 3, 1965, pp 527-534.
*FTD-TT-65-2004

Information and Data-Processing Equipment Recently Exhibited at USBR Exhibition of National Economic Achievements, by Col. A. Koptev, 11 pp.
RUSSIAN, per, Tekhnika i Vooruzheniye, No 8, Aug 1965, pp. 72-79.
JPRS 33688

Summaries of Reports Read at the Third All-Union Conference on Automatic Control (Technical Cybernetics), Odessa 1965, 172 pp. RUSSIAN, rpt, Texisy Pokladov, Tret'ye Vsesoyusnoye Soveshchaniye, Moscow, 1965, pp 2-112
JPRS 33290

Data on the Connection Between Atmospheric Electromagnetic Impulses & Instability in the Lower Layer of the Troposphere, by K. N. Barkalova.

RUSSIAN, per, Trudy Glavnaya Geofiz Obser Atmos Elek, No 146, 1963, pp 17-20.

*ACST I-8595
ID 2204053665

Conversion of Logic Algorithm Schemes, by V. F. D'yachenko, 13 p. RUSSIAN, per, Trudy, Problemy Peredachi Informatsii, No 17, 1964, pp 35-47. *FID-TT-65-2042

Some Questions Concerning the Dynamics of a Program Control System With a Reaction Step by Step Motor, by Yu. M. Motrokhin.
RUSSIAN, per, Trudy Universitet Druzhby Narodov, No 2, 1964, pp 90-94.
*FID-TT-65-2046

Scientific

Mathematics & Data Processing (Contd)

Problems of Theoretical Cybernetics, by V. M. Glushkov. RUSSIAN, bk, Voprosy Teoreticheskoy Kibernetiki, 1965, 209 pp. *JPRS

The "Kiev" Computer; Design and Application, by L. N. Dashevskiy, S. B. Pogrebinskiy, RUSSIAN, bk, Vychislitel'naya Mashina "Kiyev" Proyektirovaniye i Ekspluatasiya, 1964, pp 1-322.
*FID-MI-65-592

Defense Against Nuclear Weapons, by B. A. Olisov, et al, 51, pp RUSSIAN, bk, Zashchita ot Yadernogo Orushiya, Moscow, 1964, pp 1 - 128. JPRS 33,303

Solution of Systems of Nonlinear Equations by the Method of Differentiation With Respect to a Parameter, by M. N. Yakovlev.
RUSSIAN, per, Zh Vychisl Mat i Mat Fiz, Vol IV, 1964, pp 146-149.
NASA TT F-254

General Equation for the Energy of a Crystal Lattice, A. F. Kapustinskiy. RUSSIAN, per, Zhur Fiz Khim, No 1, Vol V, 1934, pp 59-76. 923053U UCRL Tr 1260(L)

Analysis of Optimalizing Control Systems Under Random Interference, by Au-young King-ching, 25 pp. CHINESE, per, Tzu Tung Dua Hsueh Pao, Vol I, No 2, 1963, pp 59-73. 9698819 FTD-TT-64-1119

Build-up Factors: Coefficients of the Equation of J. J. Taylor, by S. Buscaglione, R. Manzini.
FRENCH, rpt, Comitato Nazionale Energia Nucleare Rome, Jan 1965. RI/FI (65) 17.
9231663
AEC-ORNL-Tr-80

The Likelihood Test for Fit, by K. A. Schaffer. GERMAN, par, Mitth Math Statistic, Vol IX, 1957, pp 27-54. 9230563 AEC-ORNL-Tr-789 Scientific

Mathematics & Data Processing (Contd)

A Numerical Method for the Eigenvalue Problem, by Hayato Togawa, 16 pp. JAPANESE, rpt, National Aeronautical Laboratory TR-45, April 1963. Dept of Navy 4367/ONI Tr 2015

Geometrical Leveling, by Edward Warchalowski. 410 pp. POLISH, bk, <u>Niwelacja Geometryczna</u>, 1965. CFSTI TT 61-11319

Nuclear Sciences & Technology

Global Fallout of Nuclear Explosion Products, by V. N. Lavrenchik. RUSSIAN, bk, Moscow, 1965. 9231676 AEC-BNI-Tr-42

Transition Radiation and the Optical Properties of Materials, by I. M. Frank.
RUSSIAN, rpt, Academy of Sciences, Dept of Nuclear Physics, P. N. Lebedev Institute of Physics USSR. 9231677
AEC-ORNI-Tr-872

Spatial and Energy Distribution of Scattered Radiation from a Monodirectional Source in an Infinite Air Medium, by S. M. Ermakoy. V. G. Zolotukhin, et al. RUSSIAN, per, Atom Energ, Vol XVIII, No 3, 1965, pp 251, 252. 9231655
AEC-SLAC-Tr-24

The Atom Quenches Thirst, by Boris Sergeyevich Kolychev, 60 pp.

RUSSIAN, bk, Atom Utolyayet Zhazhdu, 1965, pp. 1-84.

JPRS 33213

Anomalous Escape of Ions into the "Loss Cone", by A. A. Galayev.
RUSSIAN, rpt, Conference on Plasma Physics and Controlled Nuclear Fusion Research, Report No CN-21/214, 923(69)
UCRL TX-1275(L)

Effect of the Degree of Elongation of Polymethylmethacrylate on the Magnitude of the Second Moment of the Nuclear Magnetic Resonance Spectrum, by N. M. Kocharyan.

RUSSIAN, per, Doklady Ak Nauk ARMSSR, Vol 40, No 1, 1965, pp 25-29.

*FTD-TT-65-2007

Conductivity of the Density of Altrogen and Hydrogen at Low Temperatures and High Pressures by the Method of Hydrostatic Weighing, by I. F. Golubev, O. A. Dobrovol'skiy.

RUSSIAN, per, Gazovaya Prom, No 5, 1964, pp 43-47.

*AEC Tr 2314

Magnetic Ionospheric Disturbances in Auroral Zone, by M. I. Pudovkin, R. G. Skrynnikov, et al, 7 p.
RUSSIAN, per, Geomagnetizm i Aeronomiya, Vol IV, No 6, 1964, pp 1094-1100.
*FTD-TT-65-2025

A New Method of Investigating Radiative Heat Transfer, by G. L. Polyak, V. N. Adrianov, 7 p. RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurnal, No 6, 1964, pp 63-63. *FTE-TT-65-2024

Reactions (p, pn), (p, 2n) and (p, n) on ⁸⁹Y under the Action of High Energy Protons, by Wang Ch-eng-P¹eng, I. Levenberg, et al.
RUSSIAN, rpt, JINR Preprint No P-2218, 1965, 13 pp. 9230533
UCRL Tr 1259(L)

Determination of Spins of Hol65 Neutron Resonances by Transmission of Polarized Neutrons Through a Polarized Target in the Energy Interval U-55eV, by ". P. Alfimenkov, V. I. Lushikov, &t &l. RUSSIAN, rpt, Joint Institute for Juclear Physics, Dubna, 1965. 925.657
AEC-BNL-Tr-36

Interaction of Elementary Particles with Atomic Nuclei in the Energy Region 1-30 GeV, by I. Z. Artykov, V. S. Barashenkov, et al.

RUSSIAN, rpt, Joint Institute for Nuclear Physics, Dubna, 1965. 9231656

AEC-ENL-Tr-47

Scientific
Nuclear Sciences & Technology (Contd)

Strength Functions of U-235 for Neutrons with 1 - and 1, by Yu. V. Ryabov, Yu. I. Fenin. RUSSIAN, per, Joint Institute for Nuclear Research, Dubna, 1965. 9230548
ARC-BNL-Tr-20

Kinetic Energy of Fragments and Energy Balance at the U²³⁵ Fission by Thermal Neutrons, by V. F. Apalin, Yu. N. Gritsyuk, et al. RUSSIAN, bk, Kineticheskaya Energiya Oskolkov i Energeticheskii Balans pri Delenii U²³⁵ Teplovymi Neitronami. 9230544
AEC-ANL-Tr-204

Characteristics of the Absorption of Radio Waves in Vertical Sounding of the Ionosphere Over Ashkhabad, by M. Shirmamedov, 8 p. RUSSIAN, per, Mezhuduvedomstvennyy Geofizicheskiy, No 13, 1964, pp 89-96.
*FTD-TT-65-2040

Experimental Determination of the Recommended Relative Biological Effectiveness of High-Energy Neutrons, by M. Zielczynski. RUSSIAN, per, Nukleonika, No 2, Vol X, 1965, pp 77-80. 9231654
AEC-SLAC-Tr-26

An Electromagnetic Mass-Separator of the Laboratory of Nuclear Reactions, by N. I. Tarantin, A. V. Dem'yanov. RUSSIAN, rpt, Ob'edinenni Institut Yadernix Issledovanii, Dubna, 1965. 9231669 AEC-ORNL-Tr-334

Transition Radiation of a Relativistic Charged Particle Within an Optical Frequency Range, by V. E. Pafomov, I. M. Frank.
RUSSIAN, rpt, Physical Institute in Honor of P. I. Lebedeva, Russian paper A-76, Akad Nauk SSSR, 1965.
*AEC ORNL-Tr-1062
EDC Feb 13. 1966

Approximate Nethod of Calculating the Alpha-Radiation Spectra from Thick Emitters, by V. P. Grigorov, 10 pp.
RUSSIAN, monograph, Priblishennyy metod raschetov spektrov al'fa-islucheniya tolstykh isluchateley, No 44, pp. 1-9.

JPRS 33231

Plasma with Relativistic Electrons in a trap with Magnetic Mirrors, by G. I. Budker, V. I. Volosov. RUSSIAN, rpt, Russian Paper CN-21/217 Presented at the Conference on Plasma Physics and Controlled Nuclear Fusion Research, Culham, England, 6-10 Sep 1965. 9230534 UCRUL TR 1261(L)

Triple U²³⁵ Resonance Neutron Pission, by I. Kvitek, Yu. P. Popov. RUSSIAN, rpt, Troince Delenie U²³⁵ na Rezonansnykh Neitronakh. 9230543 AEC-ANL-Tr-194

Role of Absorbed Radiation in Forming a Radiative Balance, by T. G. Berlyand, 17 p. RUSSI/N, per, Trudy Glavnaya Geo. zicheskaya Observatoriya, No 139, 1963, 3-15.

ACSI 1-8594
ID 22040535 65

World Distribution of Effective Radiation, by N. A. Yefimova, 14 p. RUSSIAN, per, Trudy, Glavnaya Geofizicheskaya Observatoriya, No 139, 1963, pp 16-26. ACSI 1-8593 ID 22040534 65

Stabilization of Magnetic Field, Based on Nuclear Resonance, by A. G. Alekseyev, V. M. Gerbovetskiy.
RUSSIAN, per, Trudy Nauchno-Issled Inst Elektrofiz Apparatury. Elektrofiz Apparatura. Sbornik Statey, No 2, 1964, pp 115-119.
*FTD-TT-65-2045

Transient Processes in Nuclear Magnetic Resonance When a Superregenerator is used by R. V. Grechishkina, RUSSIAN, per, Trudy Yestestv-Nauchn In-Ta Pri Perask, Un-Te, 1964, Vol XI, No 2, pp 129-132.

*FTD-NT-65-593

Induction Pickup for Nuclear Magnetic Resonance Spectrometer by M. L. Zlatogerskiy RUSSIAN, per, Trudy Yestestv-Nauchn In-Ta Pri Permsk, Un-Te, Vol XI, No 2, pp 135-139, 1964. *FTD-MT-65-593 Scientific Nuclear Sciences & Technology (Contd)

Nuclear Desalination Equipment of Low Capacity, by K. K. Polushkin, Yu. I. Koryakin, S. P. Kuznetsov, I. I. Grozdov, A. P. Sirotkin, A. A. Loginov, V. D. Khoroshavin, P. Ye. Gasnikov and Yu. N. Aleksenko, 17 pp. RUSSIAN, np, Yadernyye opresnitel'nyye ustanovki maloy moshehnosti, 3-9 Oct 1965.

JPRS 33480

Radiation Belts and Cosmic Rays (Joint Session of Three Branches, by G. B. Zhdanov.
RUSSIAN, per, Vestnik Ak. Nauk. SSSR, No 6, 1965, pp 103-105. 9230647
NASA TT F-9695

Determination of the Chapman-Jougget Pressure and Reaction Time in Detonation Waves of Powrful Explosives, by B. A. Ivanov, S. M. Kogarko.
RUSSIAN, per, Zh. Prikladnoi Mekh i Tekh
Fiz, No 2, 1962, pp 164-166.
*AEC
EDC 1/24/66

Regulations on Radiation Safety during Gamma Ray Defectoscopy, 24 pp.
BULGARIAN, per, <u>Durzhaven vestnik</u>, No 95, 3 Dec 1965, pp. 1-7.
JPRS 33502

Detection and Jamming of Radar, by Chang Lian, 11 pp.
CHINESE, per, Wuxiandian Jishu, No 6, 1964, pp 8-11; 21.
FTD-TT-65-1100

Computation of the Thickness of Concrete Shielding Walls Against Gamma Radiation by Arnost Honig.

CZECH, per, Inzenyrske Stavby Vol VII, 1965, pp 303-309.

*AEC ORNL - Tr-1059
EDC Feb 10, 1966

Computation of the Thickness of Steel
Shielding Walls Against Gamma Radiation,
by Armost Honig
CZECH, per Insenyrske Stavby Vol VIII,
1965, pp 351-356.
*AEC ORNL-Tr-1060
EDC Feb 10, 1966

Computation of the Thickness of Water Shields Against Gamma Radiation, by Armost Homig.

CZECH, per, Inzenyrske Stavby, Vol IX, 1965, pp 399-404.

*AEC ORNL-Tr-1061

EDC Feb 10, 1966

Comparison of Four Sets of Multigroup Effective Cross-Sections Used to Make Calculations for Fast Reactors, by J. M. Chaumont, J. Ravier. FRENCH, rpt, CEA - Association Euratom PNR/SEPR-65-017/JMC/am, 1965. *AEC ORNL-TR-1070 EDC Feb 14, 1966

Principles for Studying the Stresses Involving the Fast Reactor Group, by A. Chalot, J. Decuyper. FRENCH, rpt, CEA - Assocation Euratom PNR/SEPR-65.026, 1965. *AEC ORNL-TR-1071 EDC Feb 14, 1966

Study of the Porous Structure of Nuclear Graphites by Mercury Porosimetry, by M. Bocquet. FRENCH, rpt, Dec 16, 1961. 9230549
AEC-LA-Tr-65-23

Experimental Study of Monoenergetic Neutrons Propagation in Water, by R. Nicks, N. Papmehl, et al. FRENCH, rpt, EUR-2161.F, 1964, 100 p. *AEC ORNL-Tr-1049 EDC Feb 10, 1966

Soviet Nuclear and Armored Weapors, FRENCH, per, Bulletin Arme Blindee Cavalerie, No 31, 1965, pp 79-82. *ACSI I-8569D

Problems Relative to the Design of a Pilot Operation for Retreatment by Volatilization, by J. Schmets, et al. FRENCH, per, Centre d'Etude de l'Energie Nucleaire, Bruxelles, Sep 1965. *AEC EDC 30 Dec 1965 Scientific
Nuclear Sciences & Technology (Contd)

Gamma Radiation Curves for Steel, Aluminum, and Uranium, by J. Frippiat, R. Nicks.
FRENCH, rpt, Courbes de Rayonnement Gamma
Relatives A L'acier A L'aluminum Et a
L'Uranium, EUR-103.F. 1962, 17 pp.
**EC ORNL-Tr-1053
EDC Feb 10, 1966

Shielding Experiments at the Reactor Station Geesthacht, Annual Report, 1963, by E. Bagge.
GERMAN, rpt, Abschirmungsexperimente Am Forschungsreaktor Geesthacht Eur-2197, D, 1964, 208 pp.
*AEC ORNL-Tr 1048
EDC Feb 10, 1966

The Maximum permissible Activity Contained in the Exhaust Air From a Nuclear Plant, Pt II, by L. A. Konig, S. Zehme. GERMAN, per, Atompraxis, Vol XI, No 5, 1965, pp 268-270.

MZFR Nuclear Technical Auxiliary
Installations, by I. Kausz.
GERMAN,per, Atomwirtschaft, Vol X, 1965,
pp 360-362.
*AEC ORNL-Tr-1022
EDC Jan 17, 1966

Future Development of NUKEM, Nuclear-Chemistry and Metallurgy, 41 pp.
GERMAN, rpt, Bewerkungen der Geschftsfuhrung, Mar 1965.
Dept of Navy 4414/ONI Tr 2033

Is Karlsruhe Losing a Chance in Atom Technology? Steam Cooling of Reactors - A
Promising Principle - Responsibility of the
Ministry of Science, 6 pp.
GERMAN, per, Frankfurt Aligemeine Zeitung,
Jun 1965.
Dept of Navy 4376/QNI Tr 2031

Determination of the Interstitial Distribution of Oxygen Atoms in Monocrystalline Uranium Films by Means of Electron Diffraction, by S. Steeb, P. Mitsch.

GERNAN, per, Journal of Nuclear Materials, Vol XV, No 1, 1965, pp 81-87. 9231658

AEC-ANL-Tr-232

Preparation of Radioisotopes, by R. Munze, M. Bubner, et al. GERMAN, per, Kernenergie, Vol VII, No 6, 1964, pp 493-495. 9230585 AEC-ORNL-Tr-817

Radiation Protection Measuring Devices of the VEB Vakutronik WIB Dresden, by K. H. Weber, G. Schubert. GERMAN, per, Kernenergie, No 7, 1965, pp 439-443. ACSI I-8434 ID 2204049365

Calculation of the Experimental Width of Phonon Lines in the Triaxial Neutron Spectrometer, by Rolf Stockmeyer.
GERMAN, per, Nukleonik, Vol V, 1963, pp 121-124.
*AEC
EDC Dec 31, 1965

The Scintillation of Terrestrial Radiation by H. Siedentopf, F. Wisshak.

GERMAN, per, Optik, Vol III, No 5, 6, 1948, pp 430-443.

9231681

AEC-UCRL Tr-1269-L

X-Ray Diffraction and Atomic Dimensions, by P. Debye. GERMAN, per, Physikalische Z. Vol XXXI, 1930, pp 419-428. 9230582 UCRL Tr 1268(L)

Activation Analysis and textile Research, by H. Glubrecht.
GERMAN, rpt, Symposium on the Use of Radio-active Isotopes in Textile Research and Industry, 8-10th July, 1964, Lindau/Bodensee. 9230589
ABC-NP-Tr-1293

Analysis of Textile Threads with Radio-Nuclides, by W. Kuhn.
GERMAN, rpt, Symposium on the Use of Radioactive isotopes in Textile Research and Industry, Lindau/Ecdenses, 8-10th Jul 1964. 9230485
AEC-NP-Tr-1298

Combined Measurement Methods for Density and Moisture Content, by H. Glubrecht, H. Hinsch. GERMAN, rpt, Symposium on the use of Radioactive Isotopes in textils Research and Industry, Lindau/Bodensee, 8-10th July 1984. 9230486 AEC-NP-Tr1294 Scientific Nuclear Sciences & Technology (Contd)

Condensation of Cellulose Cross-Linking Agents by Electron Irradiation, by W. Ruttiger, D. Heinze. GERMAN, rpt, Symposium on the use of Radioactive Isotopes in Textile Research and Industry Lindau/Bodensee, 8-10 July 1964 Paper T. S. 9230590 AEC-NP-Tr-1299

The Activities and Duties of the Physics Lavoratory of the Istituto Superiore Di Santita, by M. Ageno. ITALIAN, rpt, Istituto Superiore Di Sanita' Laboratori di Fisica, ISS- 65/19 1965.

*AEC ORNL-Tr-1065
EDC Feb 13, 1966

Reviews of Isotope Separation Researches in Japan.

JAPANESE, per, Journal of the Atomic Energy Society of Japan, Aug 1965, pp 429-437.

RAND COR.

Physics

Thermal Stresses in Shells of Revolution in an Axially Asymmetric Temperature Field, by D. Kh. Krakovskiy. RUSSIAN, source unknown, No 4, 1964, pp 113-121. *FTD-TT-65-2044

An Account of Energy and Momentum Oservation Laws in Inelastic Interactions in the Monte-Carlo Method, by V. M. Mal'tsev, I. I. P'yanov. RUSSIAN, rpt, Jinr-P-2140, 1965, 15 p. *AEC ORNL-Tr-1064 EDC Feb 10, 1966

Approximate Determination of Parameters of Gas in a Shock Wave, by A. V. Belova, 16 pp.
RUSSIAN, per, Aerodinamika Razrezh, No 1, 1963, pp 220-233.
Dept of Navy 4368/ONI Tr 2017

Some Features of Diphenyl Thermal Turbines and Their Maximum Power, by V. S. Danilin, I. I. Zakharov, et al, 4 pp. RUSSIAN, per, Atomnaya Energiya, Vol XIX, No 3, Sept 1965, pp 257-260.

Flutter in a Plate in Temperature Field, by S. A. Ambartsumyan.
RUSSIAN, per, <u>Doklady Ak Nauk ArmSSR.</u>,
Vol 39, No 3, <u>1964</u>, pp 141-147.
*FTD-TT-65-2005

An Application of the Method of Isotope Exchange to the Study of the Structure of Aquapoly and Heteropoly Compounds, by V. I. Spitsyn, E. A. Torchenkova.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XCV, 1954, pp 289-292.

*AEC IS-Trans-29

EDC Jan 13, 1966

The Effects of a Third Component on the Physical Properties of Al-NN Alloys, by N. I. Varich, L. M. Burov, et al, 5 p. RUSSIAN, per, Fizika Metallov i Metallovedeniye, Vol XVIII, No 3, 1964, pp 396-400.
*FTD-TT-65-2017

Photographic Recording of High-speed Processes, by A. S. Dubovik. RUSSIAN, bk, Fotograficheskaya Registratsiya Bystroprotekayushchikh Protsessov, Noscow, 1964. 9230645-V NASA TT F-377

Use of Transparent Plastics in Stereotopographic Operations, by M. A. Blyumin. RUSSIAN, per, Geodeziya i Karto, Jul 1964, pp 49-52.
*ACSI I-8749
ID 2204060865

Tracks of Fisaion Fragments of Uranium in Muscovite, by Yu. A. Shukolyukov, I. N. Krylov. RUSSIAN, per, Geokhim, No 3, 1965, pp 291-301. 9230552 AEC-ORNL-Tr-686

Scientific Physics (Contd)

On Variational Problem of Theory of Plasticity, by G. P. Marukhno.
RUSSIAN, bk, Issledovaniya po Stroitel*noy
Mekhanike Sbornik Trudov, 1962,
pp 267-275.
*FTD-MT-65-251

Temperature Fields in a Sub-Cooled Fluid in Nucleate Boiling, by L. A. Latyshev. RUSSIAN, per, Iz VUZ, Ser Aviat Takh, No 4, Vol VI, 1963, pp 112-116. 9231633 AEC-ANL-Tr-225

Thermal Conductivity Measurements of Organic Liquids an Their Mixtures, by G. Kh. Mukhamedzyanov, A. G. Usmanov, et al. RUSSIAN, per, <u>Iz VUZ Neft i Gaz</u>, No 10, 1964, pp 70-74. *AEC TR 2312

Operational Properties of Plastics Lasts, by V. L. Peglovskiy. RUSSIAN, per, Kozhevenno-Obuvnaya Prom, No 9, 1964, p 21. *ACSI I-8937A ID 2204066465

Reference Books Being Prepared in the Soviet Union on the Thermodynamic Properties of Substances, by V. P. Glushko, L. V. Gurvich.
RUSSIAN, rpt, Mezhdumarnodnoye Agentstvo po Atomnoye Energiye Komissiya po Termodinamike Termokhimik Mekhdumarodigo Soyuza Chistoye 1 Prikladnoye Khimiye. Vene 22-27 Yulya, 1965, pp 1-8.
*FTD-TT-65-1709

Use of High Frequency Heating in Gluing of Glass Plastics, by L. M. Koval*chuk, E. N. Baskakin, 8 p. RUSSIAN, per, Plasticheskaya Hassey, No 3, 1965, pp 25-28. ACSI 1-8735 ID 22040593 65

Heans of Lowering the Temperature of Solidification of Heat-Resistant Silica-organic Glues, by A. B. Davydov, Z. G. Ivanova, 7 p. RUSSIAN, per, Plasticheskiye Massey, No 4, 1965, pp 72-74.
ACSI I-8736
ID 22040594 65

Plasma Ion Sources, by M. D. Gabovich, 169 pp. RUSSIAN, bk, Plazmennyye Istochniki Ionov, 1964, pp 1-223. 9698817-V FTD-MT-65-229

Self-Similar Motion of Fluid Under the Action of Surface Tension, by F. L. Chernous'ko.
RUSSIAN, per, Prikl Mat i Mekhan, Vol XXIX, 1965, pp 54-61.
NASA TT F-9561

Investigation of Radiative Production and Annealing of Vacancies in Ionic Crystals Using control Coloring Method, by M. A. Elango.
RUSSIAN, per, Radiats Fiz Ak Nauk Lat SSR, Inst Fiz, Vol I, 1964, pp 35-45. 9231653
AEC-BNL-Tr-46

The Separation of Americum and Curium by Anion Exchange with the Use of a Solution Containing a Mixture of Methyl Alcohol and Nitric Acid as the Eluant, by V. A. Bochkarev, E. N. Voevodin. RUSSIAN, per, Radiokhim, Vol VII, No 4, 1965, pp 461-465. 9231648
AEC-ORNL-Tr-893

Pulsed Plasma Guns Interaction Between
Plasma Blobs and Magnetic Fields,
by V. S. Komelkov, B. G. Safronov,
RUSSIAN, rpt, Report IAE - 663 I. V. Kurchatov
Institute of Nuclear Energy, Moscow, 1964,
pp 1-60. 9231662
AEC-CLN-Tr-3

The Growth of Crystals, by N. N. Sheftal'. RUSSIAN, bk, Rost Kristallov, Vol V, 1965.

Growth of Crystals, by N. N. Sheftal'. RUSSIAN, bk, Rost Kristallov, Vol VI, 1965. *CB

Conditions for Existance of Universal Optimal Automatic-Control Systems, by O. M. Kozlov. RUSSIAN, per, Sbornik Tekh Kibernet, 1963, pp 97-103. *FTD-TT-65-2008 Scientific
Physics (Contd)

Third All-Union Symposium on Wave Diffraction 363 pp.
RESIAN, bk, Tretiy Vsesoyuznyy Simpozium po Difraktsii Voln -- Referativy Dokladov, 1964, pp. 3-245.
JPRS 33458

Optimim Methods or Photographing Faint Objects, by M. A. Ayngorn, 3 p.
RUSSIAN, per, Trudy, Problemy Peredachi Informat i, No 17, 1964, pp 112-114.

TT-65-2042

Conjugated Double Bond Polymers Containing Pyridine Rings, by V. V. Pen'kovskiy, 3 p. RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya, Vol VI, No 10, 1964, pp 1755-1757. *FTD-TT-65-757

Study of the Conductivity of Polymer Films at High Frequencies, by L. I. Boguslavskiy, 4 p.
RUSSIAN, per, <u>Vysokomolekulyarnyye Soyedineniya</u>, Vol VI, No 10, 1964, pp 1802-1805.
*FTD-TT-65-757

The Kinetics and Mechanism of Polymerization of Aromatic Heterocyclic Compounds, by V. A. Kabanov, V. A. Kargin, et al, 10 p. RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya, Vol VI, No 10, 1964, pp 1852-1861. *FTD-TT-65-757

Polymerization of Quinoline in a Complex with Zinc Chloride, by D. A. Topchiyev, V. A. Kabanov, et al, 7 p. RUSSIAN, per, <u>Vysokomolelulyarnyye Soyedineniya</u>, Vol VI, No 10, 1964, pp 1814-1820. *FTD-TT-65-757

Certain Problems of 4-Chloropyridine Polymerization, by A. A. Berlin, Ye. F. Razvodovskiy, et al, 6 p.
RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya, Vol VI, No 10, 1964, pp 1838-1843.
FTD-TT-65-757

The Quartetstate of the R-centre in Potassium Chloride Crystals, by H. Seidel, M. Showcerer, GERMAN, per, Zeit Fur Physik, Vol CLXXXII, 1965, pp 398-426. *AEC Tr-2316

Pertaining to the Discussion on the New View of Basic Particles, by Sakada Shoichi, 27 pp. CHINESE, per, <u>Hung-ch'i</u>, No 6, 1 Jun 1965, pp. 19-39.

JPRS 33237

Progress in Laser, by I-Min (6654 3046) 7 pp. CHINESE, per, K'o-hsueh Hua-pao, No 9, Sept 1965, pp. 297-298, 301.
JPRS 33257

Laser Application, by K'o-Hua (2688 5478), 7 pp. CHINESE, per, K'o-hsueh Hua-pao, No 9, Sept 1965, pp. 299-301.
JPRS 33257

Conditions for the Additivity of the Refractive Index, by Yeh Ta-nien (2814 1129 1628), 9 pp. CHINESE, per, K'o-hsueh T'ung-pao, No 9, Sept 1965, pp. 816-819.

JPRS 33433

The Influence of the Property of Coordination Polyhedra of Complex Anions in Oxysalt on the Distribution of the Double Refractive Index, by Yeh Ta-nien (2814 1129 1628), 5 pp. CHINESE, per, K'o-hsueh T'ung-pao, No 9, Sept 1965, pp. 819-822.

JPRS 33433

Symmetry, Internal Structure, and Interreactions of Fundamental Particles, by Hu-Ning (5170 1380), 17 pp.
CHINESE, per, K'o-hsueh T'ung-pao, No 10, Oct 1965, pp. 853-861.
JPRS 33238

Microanalysis of Aldehydes and Amines, by Ch'en Yao-tsu (7115 5069 4371) and Niu Chihch'ao (3662 1807 6389), 6 pp.
CHINESE, per, K'o-hsuch T'ung-pao, No 10, Oct 1965, pp. 911-915.
JPRS 33238

Preliminary Study of the Crystalline Structure of Goldichite, by Ying Yu-p'u (2019 5148 3184), 5 pp. CHINERS, per, K'o-hsueh Tung-pao, No 10, Oct 1965, pp. 926-928.

JPRS 33090

Scientific
Physics (Contd)

On The Phenomena of Microwave Maser by Laser Pumping, by Huang Wu-ham, 7 pp.
CHINESE, per, K'o-hsueh T'umg-pao, No 10,
Oct 1965, pp 929-931
JPRS 33323

Use of the Principle of Deformable Correction to Analyze the Theory of Light Beam Transformational Mapping, by Chang Tsu-hsun.

CHINESE, per, Ts'e Hui Hsueh Pao, No 1,
Vol VII, 1964, pp 42-57.

*FTD-TT-65-2016

Atomic Energy as a Power Source, 50 pp. CHINESE, bk, Yuan-tsu-neng Ti Yuan-li Ho Ying-yung, Jul 1965, pp. 133-179.
JPRS 33486

Variations of Effect which Heat Sterilization has on Individual Layers of Canned Products, by J. Kascak.

CZECH, per, Prumysl Potravin, Vol XVI, No 8, 1965, pp 426-428.

*ACSI I-9174
ID 2204002766

He Ne Gas Laser, by F. Petru, et al. CZECH, per, Slabouproudy Obzor, No 4, 1964, pp 181-185.
*ACSI I-8498A
ID 2204050565

Comparative Study of the Creep Behavior of Single Crystals and Polycrystals of OL Uranium, by Jean-Pierre Andre.
FRENCH, rpt, CEA Report R 2715. 9230553
ARC-ORNL-Tr-726

The Use of Polarized Deuteron Beams and the Determination of the Optical Model Parameters, by Jacques Raynal.

FRENCI, per, Centre d'Etudes Nucleaires de Saclay. CEA-R-2511, 1965.

*AEC
EDC-1 Jan 1966

Dehydration and Decomposition of the Hydrates of Uranyl Nitrate. Formation of a Honohydrate, by N. de Forcrand.
FRENCH, per, Comptes Rendus, Vol CLVI, 1913, pp 1044-1048. 9231634
AEC-Tr-6620

Protons, Deuterons, Tritons, Nand Nuclei of He Emitted by 197 Au Under the Action of 154-Mev Protons, by Jennine Genin, Pierre Radvanyi, et al. FRENCH, per, Le Journal de Physique et le Radium, Vol XXII, 1961, pp 616-617. *AEC ORNL-tr 1067 EDC Feb 13, 1966

Influence of Pressure on the Stabilization of Plutonium in the Delta Phase by Gallium, by C. Roux, P. Le Roux, et al. FRENC!!, per, Nem Sci Rev de Met, Vol LXII, Sept 1965, pp 691-69?.
*AEC BNWL-Tr 12
EDC Jan 1965

The Heating and Confinement of Plasma in the Magnetic Well of DECA-2, by A. Biguet, P. Blanc, et al. FRENCH, rpt, Second Conference on Plasma Physics and Controlled Nuclear Fusion Research, Abington, England, 6-10 Sep 1965. 9231680 AEC-UCRL-Tr-1256-L

Study of the Allotropic Transformations of Plutonium in a Hot-Stage Microscope, by Jean Mars, Bernard Spriet, FRENCH, rpt, Service des Elements Combustibles au Plutonium et 1ºEtudes Radiometallurgiques, Section de Metallurgie du Plutonium - Report CEA-R2726, Jan 1965. 9231660

Effect of Neutron Irradiation Upon the Kinetics of Precipitation in a Supersaturated Al-Cu Alloy, by G. Vogl, B. Weiss. GERMAN, per, Acta Metallurgica, Vol XIII, 1965, pp 578-582. 9231658
AEC-ANL-Tr-231

Neasuring of High X-ray Doses by Optical Absorption in Glass or Plastics, by E. G. Hofmann. GERMAN, per, Kerntechnik, Vol V, 1963, pp 439-445. *AEC

A New Method for the Preparation of Strain-Pree Single Crystal Tensile Specimens for High Melting Point Metals and Some Results on the Plastic Deformation of Niobium Single Crystals, by B. Votava. GERMAN, per, Phys Sol. Vol V, 1964, pp 421-434. 9230386 AEC-ORNL-Tr-794

Scientific
Physics (Contd)

Stereotrigomatograph-Jena. GERMAN, per, Zeiss Jena Brochure May-June 1965, pp 2-35. *ACSI I-8486 ID 2204050165

The Separation of Cations on a Paper-Chromatographic Basis, by E. Blasius, W. Gottling.

GERMAN, per, Z fuer Analytische Chemie, Vol CLXII, 1958, pp 423-429. 9231637

AEC-UCRL-Tr-1245(L)

On Schrodinger's Wave Mechanics, by V. Fock.
GERMAN, per, Z. Physik, Vol XXXVIII, 1926, pp 242-250.
NASA TT F-9481

Resonance Scattering at the 15.1 MeV Level in 12C, by H. Schmid, W. Scholz.
GERMAN, per, Z fur Physik, Vol CLXXV, 1963, pp 430-439. 9230574
AEC-SLAC-Tr-20

Measurement of Particle Residence Times in a Fluidized Bed with Isotopes, by Oszkar Borlai, Endre Hazi, et al. HUNGARIAN, rpt, A Veszprem Vegyipari Egyetem Kozlemenyei, Vol VII, 1963, pp 55-60. 9231687 AEC-BNL-Tr-43

Ion Optics (I), Ion Optics by First Order Approximation, by H. Matsuda.

JAPANESE, per, Shitsuryo Bunseki, Vol XII, No 25, 1964, pp 47-58.

*AEC Tr-2318

Ion Optics (II). Ion Optics by First Order Approximation. Cont. by H. Matsuda. JAPANESE, per, Shitsuryo Bunseki, Vol XII, No 26, 1964, pp 105-114. *AEC Tr-2319

Ion Optics (III), Second Order Aberration, by H. Matsuda. JAPANESE, per, Shitsuryo Bunseki, Vol XII, No 27, 1964, pp 165-179. *AEC Tr-2320

Ion Optics (IV). Second Order Aberration. Cont. by H. Matsuda. JAPANESE, per, <u>Shitsuryo Bunseki</u>, Vol XIII, No 29, 1965, pp 59-70. *AEC Tr-2321

Entropy Effects in Three-Dimensional Hypersonic Flows over Slightly Blunt-Nosed Bodies, by V. V. Sychev.
POLISH, per, Archiwum Mechaniki Stosowanej, Vol 16, No 2, 1964, pp 517-519.
*FTD-TT-65-1827

Luminescence of Tri- and Divalent Ions of the Rare Earths in Crystals of the Flourite Type by P. P. Feofilov. POLISH, per, Acta Physica Polonica, 1964, Vol 26, No 3&4, pp 331-343.

*FTD-1T-65-1832

On the Mechanism of Electroluminescence of ZNS-CU Single Crystals by J. Kubatova. POLISH, per, Acta Physica Polonica, Vol 26, No 384, 1964, pp 683-688.
*FTD-TT-65-1832

Experimental Investigation of the Porosity in a Cylindrical Space (Void Fraction) in a Bed Filled Randomly with Spheres, by B. Ruzhanski.

POLISH, rpt, Instytut Badan Jadrowych, October 1964. Report No 519/IX, pp 1-9.
9231646

AEC-SC-T-65-747

Proton H-Neter, by B. Sczaniecki.
POLISH, per, Poznanskie Towarzystwo
Przyjaciol Nauk, Komisja NatematycznoPrzyrodnicza, Prace, Vol XI, No 2, pp 245-249,
1964.
**TD-TT-65-2032

The Time-Instability of the Hn-zn Ferrites Permeability under Magnetic Forcing Stress, by A. Braginski. POLISH, per, <u>Przeglad Elektroniki</u>, No 11, 1964, pr 009-616. ACSI I-8410 ID 2204046965

Scientific Miscellaneous

Works Entered in Competition for 1966 Lenin Prizes, 14 pp. RUSSIAN, np, <u>Izvestiya</u>, 13 Nov 1965, pp. 3-4. JPRS 33202

We Are From the Sky, by A. Belyayer, 7 pp. RUSSIAN, nsp, Krasnaya Zvezda, No 186, 10 Aug 1965, Moscow, p 2. DIA LN 153-65

Automatic Machines and Man, V. Trapeznikov, 6 pp.
RUSSIAN, per, Nedelya, No 48, 21-27 Nov 1965, pp. 14-15.
JPRS 33714

Science and Technological Progress by M. V. Keldysh, 11 pp. RUSSIAN, np, Pravda, 10 Oct 1965, pp. 2-3. JPRS 33590

Fourth All-Union Congress of Architects, 5 pp. RUSSIAN, np, Stroitel'naya Gazeta, No 129, 31 Oct 1965, p. 1.
JPRS 33430

Chronicle.
RUSSIAN, per, Vest Mosk Univ, No 1, 1964, pp 80-83.
*ACSI I-8561D
ID 2204051465

Translated Abstracts of Articles and Titles of Research Notes Appearing in: CHINESE, per, Acta Physica Sinica, Vol XX, No 5, May 1964. 9698749 AF Cambridge Res Lab Emmanuel College - EPM 65-22 (a)

Decree Concerning Scientific Degrees in the Socialist Republic of Rumania, 20 pp. BUIGARIAN, per, <u>Buletinul Oficial</u>, No 13, 18 Nov 1965, pp. 106-112.

JPRS 33591

The Science Center in Bratislava, by Petrlik J. Cenek. CZECH, per, <u>Veda a Technika Hladezi</u>, No 7, 1965, pp 224, 225. ACS1 I-7892 ID 2204041565 Scientific
Miscellaneous (Contd)

Consideration of an Outline for the Development of Scientific Research Until 1970,
Josef Chvatal, Jiri Nekola, et al.
CZECH, bk, Vastnik Ceskoslovenske Akademie
Ved, Vol LXXIII, No 5, 1964, pp 737-777.
ACSI 1-6495
ID 2204050465

The State of Present-Day Technology.
FRENCI, per, Bulleten Arme Blindee Cavalerie,
No 31, 1965, pp 35-56.
*ACSI I-8569A

The Results for the Year 1964, 18 pp. FRENCH, rpt, Europe Outremer L'Aviation en Afrique, Jun 1965.
DIA IN 230-65 (c)

Technical Report on the Claoway P System, 11pp.
GERNAN, rpt, Technischer Bericht Uber
Den Heizbeiag System "Calorway P",
1965, pp 1-15.
ACSI I-7886
ID 1806005265

INFORMATION RECEIVED DURING JANUARY

ON COVER -TO - COVER TRANSLATIONS

Astronomicheskii Zhurnal, Vol XLII, No 4, Jul-Ang 1965. American Institute of Physics Vol IX, No 4, Jan-Feb 1966

Aviatsiya i Kosmonavtika, No 7, 1965. *FTD-TT-65-1980

Aviatsiya i Kosmonavtika, No 8, 1965. *FTD-TT-66-2

Doklady Akademii Nauk SSSR, Math Section, Vol CLXIII, No 1 - 6, 1965.

American Mathematical Society Vol VI, No 4, Jul-Aug 1965

Doklady Akademii Nauk SSSR, Physical Chemistry Section, Vol CLIX, No 1 -6, Nov, Dec 1964. CB

Doklady Akademii Nauk SSSR, Physics Section, Vol CLXII, No 4-6, June 1965. American Institute of Physics Vol X, No 6, Dec 1965

Elektrokhimiya, Vol I, No 3, 1965.

Elektrosvyaz', Vol XIX, No 2, 1965. IEEE

Elektrosvyaz', Vol XIX, No 8, 1965.

Fizika Tverdogo Tela, Vol VII, No 7, 1965. American Institute of Physics Vol VII, No 7, Jen 1966 Fizika Tverdogo Tela, Vol VII, No 8, 1965. American Institute of Physics Vol VII, No 8. Feb 1966

Geliotekhnika, Vol I, No 1, 1965. JPRS 33417

Celiotekhnika, No 2, 1965. JPRS 33571

Geologiya Nefti i Gaza, Vol VI, No 2, 1962. The Geological Society of America

Izvestiya AkaGemii Nauk SSSR, Atmospheric and Oceanic Physics, Vol I, No 7, July 1965. American Geophysical Union

Izvestiya Akademii Mauk SSSR, OTN, Tekhnicheskaya Kibernetika, No 5, Sep-Oct 1965.

JPRS 33482

Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, Vol XXVIII, No 11, 1964. Columbia Technical Translations

JEFP Pis!ma v Redaktsiyu, Vol II, No 7, 1 Oct 1965. American Institute of Physics

JETP Pis'ma v Redaktsiyu, Vol II, No 8, 15 Oct 1965, American Institute of Physics

JETP Pis'ma v Redaktsiyu, Vol II. No 9, 1 Nov, 1965. American Institute of Physics JETP Letters

Koks-Smola-Gaz, VolVI, No 4, 1961. Office of Technical Services TT 63-11365	Prace Instytutow Ministerstwa Hutnictwa, No 9, 1957. Office of Technical Services TT 63-11385
Koks-Smola-Gaz, Vol VII, No 1, 1962. Office of Technical Services TT 63-11385	Prace Instytutow Ministerstwa Hutnictwa, No 9, 1957. Office of Technical Services TT 63-11385
Kristallografiya, Vol X, No 4, Jul-Aug 1965. American Institute of Physics Vol X, No 4, Jan-Feb 1966.	Radiotekhnika, Vol XX, No 2, 1965.
Optika i Spektroskopiya, Vol XIX, No 3, Sept	Radiotekhnika, Vol XX, No 8, 1965. IEEE
1965. Optical Society of America	Radiotekhnika i Elektronika, No 1, Jan 1964. IEEE
Prace Glownego Instytutu Gornictwa, Ser A, No 182, 1956. Office of Technical Services TT 63-11385	Radiotekhnika i Elektronika, No 2, Feb 1964.
Prace Glownego Instytutu Gornictwa, Ser A, No 232, 1959. Office of Technical Services TT 63-11385	Radiotekhnika i Elektronika, No 3, Mar 1964.
Prace Glownego Instytutu Gornictwa, Ser A, No 237, 1959. Office of Technical Services TT 63-11385	Radiotekhnika i Elektronika, No 4, Apr 1964.
Prace Glownego Instytutu Gornictwa, Ser A, No 246, 1960. Office of Technical Services TT 63-11385	Radiotekhnika i Elektronika, No 5, May 1964.
Prace Glownego Instytutu Gornictwa, Ser B, No 206, 1958. Office of Technical Services TT 63-11385	Radiotekhnika i Elektronika, No 6, Jun 1964,
Prace Glownego Instytutu Gornictwa, Ser B, No 2 1960. Office of Technical Services TT 63-11385	54, Radiotekhnika i Elektronika, No 7, July 1964. IEEs
Prace Clownego Instytutu Cornictwa, Ser B, No 258, 1960. Office of Technical Services TT 63-11385	Radiotekhnika i Elektronika, Vol IX, No 8,

Prace Instytutov Ministerstva Anthictwa, Vol VIII 1956. Office of Technical Services TT 63-11385

1964. IKKE

Radiotekhnika i Klektronika, Vol IX, No 9, 1964.

TERE

Radiotekhnika i Elektronika, Vol IX, No 10, 1964. IERE

Radiotekhnika i Klektronika, Vol IX, No 11, 1964 IKE

Radiotekhnika i Elektronika, Vol IX, No 12, 1964. IEEE

Saopstenja Instituta za Vodoprivredu Jaroslav Cerni, Vol XII, No 33, 1965. Office of Technical Services TT 65-50401/2

Tsvetnye Metally, Vol XXXVII, No 7, 1964. Primary Sources Vol V, No 7, 1964

Vestnik Akademii Meditsinskikh Nauk SSSR, Vol XX, No 10, 1965.

JPRS 33643

Vestnik Leningradskogo Universiteta, seriya, Matematiki, Mekhaniki i Astronomii, No 13, 1963.

Foreign Technology Division MT-64-249 9698713.v

Voyenno-Meditsinskiy Zhurnal, No 7, 1965. *ACSI I-8823 ID 22040641 65

Voyenno-Meditsinskiy Zhurnal, No 8, 1965.

* ACSI I-8824 ID 22040642 65 Zhurnal Eksperimentalnoi i Teoreticheskoi Fiziki, Vol XLVIII, No 5, May 1965. American Institute of Physics Soviet Physics JETP Vol XXI, No 5, Nov 1965

Zhurnal Eksperimental noi i Teoreticheskoi Fiziki, Vol XIVIII, No 6, 1965. Am Inst Phys Sov Phys JETP Vol XXI, No 6, Dec 1965

Zhurmal Prikladnoi Khimii, Vol XXXVIII, No 2, 1965. CB

Zhurnal Tekhnicheskoi Fiziki, Vol XXXV, No 8, 1965. American Institute of Physics Vol X, No 8, Feb 1966

SOVIET ASTRONOMY

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A Translation of "As ronomicheskii Zhurnal"

(Russian Original Vol. 42, No. 4, pp. 689 -870, July-August, 1965)

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ERRATA

The following corrections are translated from pages 542 and 790 of Tom 163:

- Ju. V. Linnik, Statistical problems with nuisance parameters, Vol. 5 (1964), no. 4, 891-893 (Russian pages Tom 157, 49-51). After formula (2) it is necessary to add, "These relations are considered as also acting in the complex domain." The number r in formula (2) should be considered as equal to 1.
- A. Ju. Levin, A Fredholm equation with a smooth kernel and boundary-value problems for a linear differential equation, Vol. 5 (1964), no. 6, 1415-1419 (Russian pages Tom 159, 13-16), page 14, line 16 should read

$$\int_{a}^{b} (t-a)^{n-1} (b-t)^{n+1} q(t) dt.$$

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PROCEEDINGS of the ACADEMY OF SCIENCES of the USSR

A translation of DOKLADY AKADEMII NAUK SSSR

A publication of the Academy of Sciences of the USSR

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Soviet Physics DOKLADY

A Translation of the Physics Sections of the Proceedings of the USSR Academy of Sciences

(Russian Original Vol. 162, Nos. 4-6, June, 1965)

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PETROLEUM GEOLOGY Box 171 McLean, Virginia

Translator and Publisher Dr. James W. Clarke

Technical Editor Grace Carrington

Editorial Assistant Antoinette B. Clarke

Published monthly \$25.00 a year (12 issues)

Published on a non-profit basis in the interest of geological science

Available From The Geological Society of America

IZVESTIYA AKADEMII NAUK SSSR, ATMOSPHERIC AND OCEANIC PHYSICS Vol I, No 7, July 1965

English Edition of Izvestiya, Academy of Sciences, USSR, Atmospheric and Oceanic Physics, Vol. 1, No. 7, 1965

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TECHNICAL CYBERNETICS

No 5, 1965

[Following is the translation of the Russian-language publication <u>Izvestiya Akademii Nauk SSSR, OTN, Tekhnicheskaya Kibernetika</u> (English version above) Moscow, No, 5, Sep-Oct 1965, pp 1-168.]

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A Translation of the Journal "Kristallografiya"

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RUSSIAN ABBREVIATIONS IN TEXT

AN SSSR	Academy of Sciences, USSR.
	Communist Party, Soviet Union.
	State Institute of Non-Ferrous Metals.
	State Institute for the Design and Planning of Non-Ferrous Metals
p-0-5	Industry Establishments.
Girodmet	State Rare Metals Scientific Research Institute
Goenlan	State Planning Committee of the Council of Ministers, USSR.
GOST	
	Foreign literature Publishing House.
Kaz SSR	
Mocheta	State Scientific and Technical Publishing House of Literature on
Larging Trossessessessessesses	Machinery.
Molehemahm	Scientific Research Institute for the Mechanical Concentration of
	Minerals.
	State Scientific and Technical Publishing House of Literature on
metallurgizdat	Ferrous and Non-Ferrous Metallurgy.
NKTP	People's Commissariat of Heavy Industry.
MTO	Scientific and Technical Society.
	United Scientific and Technical Publishing Houses.
Sovnerkhoz	Council of the National Economy.
TsIIN TsM	Central Office for Information on Non-Ferrous Metals.
	Urals Branch of the Academy of Sciences of the USSR.
Uk SSR	
	All-Union Aluminum and Magnesium Institute.
VUZ	Institute of Higher Education.

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Vestnik OF THE USSR ACADEMY OF MEDICAL SCIENCES

Vol XX, No 10, 1965

[Following is a complete translation of the Russianlanguage journal Vestnik Akademii Meditsinskikh Nauk SSSR (Herald of the USSR Academy of Medical Sciences), Moscow, Vol XX, No 10, 1965, pp 3-85]

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CONSULTANTS BUREAU ENTERPRISES, INC. 227 West 17th Street, New York 11, N.Y.

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Annual Subscription \$135

Single Issue \$30

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UNCLASSIFIED Central Intelligence Agency



7 September 2004

Ms. Roberta Schoen
Deputy Director for Operations
Defense Technical Information Center
7725 John J. Kingman Road
Suite 0944
Ft. Belvoir, VA 22060

Dear Ms. Schoen:

In February of this year, DTIC provided the CIA Declassification Center with a referral list of CIA documents held in the DTIC library. This referral was a follow on to the list of National Intelligence Surveys provided earlier in the year.

We have completed a declassification review of the "Non-NIS" referral list and include the results of that review as Enclosure 1. Of the 220 documents identified in our declassification database, only three are classified. These three are in the Release in Part category and may be released to the public once specified portions of the documents are removed. Sanitization instructions for these documents are included with Enclosure 1.

In addition to the documents addressed in Enclosure 1, 14 other documents were unable to be identified. DTIC then provided the CDC with hard copies of these documents in April 2004 for declassification review. The results of this review are provided as Enclosure 2.

We at CIA greatly appreciate your cooperation in this matter. Should you have any questions concerning this letter and for coordination of any further developments, please contact Donald Black of this office at (703) 613-1415.

Sincerely,

Money Later See for Sergio N. Alcivar

Chief, CIA Declassification Center, Declassification Review and Referral

Branch

Enclosures:

- 1. Declassification Review of CIA Documents at DTIC (with sanitization instructions for 3 documents)
- 2. Declassification Status of CIA Documents (hard copy) Referred by DTIC (with review processing sheets for each document)



Processing of OGA-Held CIA Documents

The following CIA documents located at DTIC were reviewed by CIA and declassification guidance has been provided.

OGA Doc ID Job Num Box Fidr Doc	Job Num	Box	Fldr		Doc ID	D Document Title	Pub Date Pages	e Pages	Decision	Proc Date
AD0463342	78-03109A	55	ļ -	2	88	Consolidated Translation Survey For April 1965	4/1/1965	190	Approved For Release	3/25/2004
AD0465168	78-03109A	22	-	ო	89	Consolidated Translation Survey For May 1965	5/1/1965	245	Approved For Release	3/25/2004
AD0467068	78-03109A	55	-	4	06	Consolidated Translation Survey For June 1965	6/1/1965	221	Approved For Release	3/25/2004
AD0468849	78-03109A	22	-	2	91	Consolidated Translation Survey For July 1965	7/1/1965	218	Approved For Release	3/25/2004
AD0471155	78-03109A	25	-	9	95	Consolidated Translation Survey For August 1965	8/1/1965	236	Approved For Release	3/25/2004
AD0473500	78-03109A	25	-	7	93	Consolidated Translation Survey For September 1965	9/1/1965	221	Approved For Release	3/25/2004
AD0474384	78-03109A	22	-	æ	94	Consolidated Translation Survey For October 1965	10/1/1965	181	Approved For Release	3/25/2004
AD0475860	78-03109A	55	-	6	92	Consolidated Translation Survey For November 1965	11/1/1965	305	Approved For Release	3/25/2004
AD0477388	78-03109A	26	-	-	96	Consolidated Translation Survey For December 1965	12/1/1965	181	Approved For Release	3/25/2004
AD0478471	78-03109A	26	-	2	26	Consolidated Translation Survey For January 1966	1/1/1966	198	Approved For Release	3/25/2004
AD0479675	78-03109A	26	-	က	86	Consolidated Translation Survey For February 1966	2/1/1966	354	Approved For Release	3/25/2004
AD0481681	78-03109A	99	-	4	66	Consolidated Translation Survey For March 1966	3/1/1966	237	Approved For Release	3/25/2004
AD0334379	78-03117A	191	-	37	4255	Status And Activities Of Prominent Scientists In Communist China In 1962	1/29/1963	3 53	Approved For Release	3/29/2004
AD0333974	78-03117A	190	-	35	4212	Scientific Information Report Outer Mongolia (1)	1/17/1963	3 27	Approved For Release	3/29/2004
AD0335202	78-03117A	195	-	13	4394	Scientific Information Report Outer Mongolia (2)	3/13/1963	3 27	Approved For Release	3/25/2004
AD0332657	78-03117A	183	-	13	3924	Scientific Information Report Biology And Medicine (22)	10/12/1962	2 76	Approved For Release	3/29/2004
AD0333147	78-03117A	185	-	30	4020	Scientific Information Report Biology And Medicine (23)	11/16/1962	2 90	Approved For Release	3/29/2004
AD0333427	78-03117A	188	-	13	4112	Scientific Information Report Biology And Medicine (24)	12/13/1962	2 84	Approved For Release	3/29/2004
AD0334160	78-03117A	190	-	10	4187	Scientific Information Report Biology And Medicine (25)	1/10/1963	69 8	Approved For Release	3/29/2004
AD0334612	78-03117A	193	-	10	4310	Scientific Information Report Biology And Medicine (26)	2/20/1963	3 112	Approved For Release	3/29/2004
AD0335309	78-03117A	195	-	32	4413	Scientific Information Report Biology And Medicine (27)	3/20/1963	3 110	Approved For Release	3/29/2004
AD0336242	78-03117A	198	-	16	4509	Scientific Information Report Biology And Medicine (28)	4/12/1963	3 81	Approved For Release	3/29/2004
AD0332575	78-03117A	184	-	9	3957	Scientific Information Report Chemistry And Metallurgy (22)	22) 10/23/1962	2 47	Approved For Release	3/29/2004
AD0333164	78-03117A	187	-	7	4061	Scientific Information Report Chemistry And Metallurgy (23)	23) 11/28/1962	2 65	Approved For Release	3/25/2004
AD0333857	78-03117A	189	-	22	4160	Scientific Information Report Chemistry And Metallurgy (24)	24) 1/2/1963	22	Approved For Release	3/29/2004
AD0334310	78-03117A	191	-	20	4238	Scientific Information Report Chemistry And Metallurgy (25)	25) 1/28/1963	3 52	Approved For Release	3/29/2004

Wednesday, August 25, 2004